HORIZON 2020 Work Programme for 2018-2020

Overview

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What is Horizon?

❖ Horizon 2020 is the biggest EU Research and Innovation programme ever with nearly €80 billion of funding available over 7 years (2014 to 2020);

❖ Horizon 2020 is the financial instrument implementing the Innovation Union, a Europe 2020 flagship initiative aimed at securing Europe's global competitiveness.

❖ Horizon 2020 is open to everyone, with a simple structure that reduces red tape and time so participants can focus on what is really important. This approach makes sure new projects get off the ground quickly – and achieve results faster.

❖ The EU Framework Programme for Research and Innovation will be complemented by further measures to complete and further develop the European Research Area.

❖ These measures will aim at breaking down barriers to create a genuine single market for knowledge, research and innovation.

Pillars of the Horizon 2020 programme

HORIZON 2020
EUROPEAN COMMISSION — INNOVATION UNION

Excellent Science (24.4 B €)

- European Research Council (13.1 B €)
- Future and Emerging Technologies (2.7 B €)
- Marie Skłodowska-Curie Actions (6.1 B €)
- Research Infrastructures (2.5 B €)

Industrial Leadership (17 B €)

LEIT = Leadership in enabling and industrial technologies
- ICT
- Nano, new materials
- Biotechnology
- Space
(13.5 B €)

- Access to Risk Finance (2.9 B €)
- Innovation in SMEs (0.6 B €)

Societal Challenges (29.7 B €)

- Health (7.5 B €)
- Food (3.9 B €)
- Energy (6 B €)
- Transport (6.3 B €)
- Climate (3 B €)
- Inclusive Societies (1.3 B €)
- Security (1.7 B €)

Spreading Excellence (0.8 B €)

Science for Society (0.5 B €)

EIT (2.7 B €)   **JRC (1.9 B €)**   **Euratom (1.6 B €)**

WP 2018-2020: Excellence Science

❖ **European Research Council/ERC:**

❖ **ERC Starting Grants (TBD)** - Researchers of any nationality with **2-7 years of experience since completion of PhD** in **any field of research.** Starting Grants may be awarded up to € **1.5 million** for a period of **5 years**.

❖ **ERC Consolidation Grants (Deadline: 15.02.2018)**- Researchers of any nationality with **7-12 years of experience since completion of PhD** in **any field of research.** Starting Grants may be awarded up to € **2.0 million** for a period of **5 years**.

❖ **ERC Advanced Grants (Deadline: 30.08.2018)**- Applicants for the ERC Advanced Grants - called Principal Investigators (PI) - are expected to be active researchers who have a **track-record of significant research achievements in the last 10 years**. Advanced Grants may be awarded up to € **2.5 million** for a period of **5 years**.

❖ **ERC Synergy Grants, Proof of Concept, etc** - Additional Opportunities for ERC Grantees.

WP 2018-2020: Excellence Science

❖**Future and Emerging Technologies/FET:**

Future and Emerging Technologies (FET) activities aim to create in Europe a fertile ground for responsible and dynamic multi-disciplinary collaborations on future technologies and for kick-starting new European research and innovation ecosystems around them. These will be seeds for future industrial leadership and for tackling society's grand challenges in new ways.

H2020-FETOPEN-2018-2020, FET Open: Novel Ideas for Radical New Technologies – 2018, 2019-2020 (3 calls)

FET Open is part of the European Innovation Council pilot and also calls for coordination and support for communication, innovation and horizon scanning.

H2020-FETPROACT-2018-2020, FET Proactive: Boosting Novel Technologies – 2018 (3 calls)

This work programme features a selection of ambitious emerging technology topics derived from an extensive consultation and advice from the FET Advisory Group. Topics include: living technologies, socially interactive technologies, technologies related to time, artificial organs, micro-energy technologies, and topological matter.

H2020-FETHPC-2018-2020, FET Proactive: High Performance Computing – 2018, 2019(3 calls)

Is designed in synergy with the LEIT-ICT and e-Research Infrastructures work programmes. It covers the co-design of the exascale machines integrating the European microprocessor part and addresses the development of scientific and engineering applications that will run on extreme scale HPC machines.

H2020-FETFLAG-2018-2020, FET Flagship (3 calls): Tackling Grand Interdisciplinary Science and Technology Challenges – 2018 and Other Actions (4 calls)

Supports the continuation of the Graphene and HumanBrainProject flagships, with a clear shift to innovation and impact. It also features the ramp-up of a new flagship on Quantum Technologies, and preparatory actions for new Flagships

WP 2018-2020: Excellence Science

❖ **Marie Skłodowska-Curie Actions/MSCA** :

  ❖ **H2020-MSCA-ITN-2018-2020: Innovative Training Networks/ ITN – 2018,2019,2020:**
    - ❖ *The Innovative Training Networks (ITN) aim to train a new generation of creative, entrepreneurial and innovative early-stage researchers, able to face current and future challenges and to convert knowledge and ideas into products and services for economic and social benefit*

  ❖ **H2020-MSCA-IF-2018-2020: Individual Fellowships/ IF – 2018,2019,2020:**
    - ❖ *The goal of the Individual Fellowships is to enhance the creative and innovative potential of experienced researchers, wishing to diversify their individual competence in terms of skill acquisition through advanced training, international and intersectoral mobility.*

  ❖ **H2020-MSCA-RISE-2018-2020: Research and Innovation Staff Exchange/ RISE – 2018,2019,2020:**
    - ❖ *The RISE scheme promotes international and cross-sector collaboration through exchanging research and innovation staff, and sharing knowledge and ideas from research to market (and vice-versa).*

  ❖ **H2020-MSCA-COFUND-2018-2020: Co-funding of regional, national and international programmes – 2018,2019,2020:**
    - ❖ *The COFUND scheme aims to stimulate regional, national or international programmes to foster excellence in researchers' training, mobility and career development, spreading the best practices of the Marie Skłodowska-Curie actions.*

  ❖ **H2020-MSCA-NIGHT-2018-2020: European Researchers' Night – 2018, 2020:**
    - ❖ *The European Researchers' Night aims to bring researchers closer to the general public and to increase awareness of research and innovation activities, with a view to supporting the public recognition of researchers, creating an understanding of the impact of researchers' work on citizen's daily life, and encouraging young people to embark on research careers.*

WP 2018-2020: Excellence Science

❖ **Research Infrastructures, including e-Infrastructures/INFRA:**

  ❖ **H2020-INFRADEV-2018-2020: Development and long-term sustainability of new pan-European research infrastructures (2018-2019, 2019-2020) (3 calls):**

  ❖ *This call will support the development of new world-class research infrastructures which will help Europe to respond to grand challenges in science, industry and society, will facilitate and support the implementation and long-term sustainability of the research infrastructures identified by the European Strategy Forum on Research Infrastructures (ESFRI) and of other world-class research infrastructures.*

  ❖ **H2020-INFRAEOSC-2018-2020: Implementing the European Open Science Cloud (2018, 2019, 2018-2019, 2019-2020) (5 calls):**

  ❖ *This call will achieve the vision put forward by the European Cloud Initiatives and it will make the European Open Science Cloud (EOSC) a reality and supports interdisciplinary research and Open Science, as a new pan-European model for research data and related services.*

  ❖ **H2020-INFRAIA-2018-2020: Integrating and opening research infrastructures of European interest (2018-2019) (1 call):**

  ❖ *This call will open up key national and regional research infrastructures to all European researchers from both academia and industry as well as ensure their optimal use and joint development*

  ❖ **H2020-INFRAEDI-2018-2020: European Data Infrastructure (2018) (3 calls):**

  ❖ *This call will support the creation of a world-class European Data Infrastructure (EDI) offering high performance computing and data capabilities, and fast connectivity*

  ❖ **H2020-INFRAINNOV-2019-2020: Demonstrating the role of Research Infrastructures in the translation of Open Science into Open Innovation (2019) (2 calls):**

  ❖ *This call will foster the innovation potential of research infrastructures by increasing the involvement of industry (including SMEs) in the development of research infrastructures, and making industry more aware of the opportunities offered by research infrastructure to improve their products*

  ❖ **H2020-INFRASUPP-2018-2020: Support to policy and international cooperation (2018-2019) (1 call):**

  ❖ *This call will reinforce European research infrastructures policy and international cooperation. Pooling and sharing of resources at European level requires the development of well defined policies and agreed mechanisms of cooperation and assessment.*

WP 2018-2020: Industrial Leadership

❖ **Leadership in Enabling and Industrial Technologies/LEIT:**

❖ **Information and Communication Technologies**

❖ **Calls Group 1: H2020-ICT-2018-2020: Information and Communication Technologies**

  ❖ **H2020-ICT-(01-10)-2018-2020: Technologies for Digitising European Industry (10 calls in 2018-2020)**

  ❖ **H2020-ICT-(11-16)-2018-2020: European Data Infrastructure: HPC, Big Data and Cloud technologies (6 calls in 2018-2020)**

  ❖ **H2020-ICT-(17-23)-2018-2020: 5G (6 calls in 2018-2020)**

  ❖ **H2020-ICT-(24-31)-2018-2020 : Next Generation Internet (NGI): (8 calls in 2018-2020)**

  ❖ **H2020-ICT-(32-35)-2018-2020 : Cross-cutting activities: (8 calls in 2018-2020)**

❖ **Calls Group 2: H2020-DT-ICT-2018-2020: Digitising and transforming European industry and services: digital innovation hubs and platforms**

  ❖ **H2020-DG-ICT-(01-06)-2018-2020: Support to Hubs (6 calls in 2018-2020)**

  ❖ **H2020-DG-ICT-(07-16)-2018-2020: Platforms and Pilots (7 calls in 2018-2020)**

❖ **Calls Group 3: H2020-SU-2018-2020: Cybersecurity (7 calls in 2018-2020)**

❖ **Calls Group 4: H2020-EUJ-2018: EU-Japan Joint Call (2 calls in 2018)**

❖ **Calls Group 5: H2020-EUK-2018: EU-Korea Joint Call (2 calls in 2018)**

❖ **Other Actions: EUROSTAT, Digital Assembly Events in 2018-2019, low-power microprocessor technologies, etc. (9 Actions in 2018-2019)**

WP 2018-2020: Industrial Leadership

❖ **Leadership in Enabling and Industrial Technologies/LEIT:**

❖ **Nanotechnologies, Advanced Materials, Biotechnology and Advanced Manufacturing and Processing**

❖ **Calls Group 1, H2020-NMBP-TO-IND-2018-2020: FOUNDATIONS FOR TOMORROW'S INDUSTRY -** The purpose of this call is to lay the foundations for tomorrow's industry in Europe, and to create jobs and growth through an innovation ecosystem for the design, development, testing, and upscaling of advanced materials and nanotechnologies.

  ❖ **H2020-DT-NMBR-(01-06) 2018-2020: Open Innovation Test Bend (2018,2019,2020), (6 calls);**

  ❖ **H2020-DT-NMBR-(07-12) 2018-2020: Materials Characterization And Computational Modelling (2018,2019,2020), (6 calls);**

  ❖ **H2020-DT-NMBR-(13-17) 2018-2020: Governance, Science-Based Risk Assessment and Regulatory Aspects (2018,2019,2020), (5 calls)**

❖ **Calls Group 2, H2020-NMBP-TR-IND-2018-2020: TRANSFORMING EUROPEAN INDUSTRY** The purpose of this call is to transform European industry through the integration of digitisation and other enabling technologies and achieve global industrial leadership. Success will be seen in global industrial leadership, notably in manufacturing, and in opportunities for re-industrialisation.

  ❖ **H2020-DT-FOF-(01-20) 2018-2020: Factories of the Future/FOF (2018,2019,2020), (15 calls)**

  ❖ **H2020-BIOTECH-(01-07) 2018-2020: Biotechnology (2018,2019,2020), (7 calls)**

  ❖ **H2020-NMBR-(21-23) 2018-2020: Medical Technology and Innovation (2018,2019,2020), (3 calls)**

WP 2018-2020: Industrial Leadership

❖ **Leadership in Enabling and Industrial Technologies/LEIT:**

   ❖**Nanotechnologies, Advanced Materials, Biotechnology and Advanced Manufacturing and Processing**

   ❖ **Calls Group 3, H2020-NMBP-ST-IND-2018-2020: INDUSTRIAL SUSTANABILITY-** The purpose of this call is to further strengthen the global leadership of Europe's industry in environmental sustainability, through a combination of mature and disruptive technologies.

   ❖ **H2020-CE-SPIRE-(01-18) 2018-2020: Sustainable Process Industry (2018,2019,2020), (10 calls)**

   ❖ **H2020-CE-SPIRE-(24-26) 2018-2020: Catalyzing the Circular Economy (2018,2019,2020), (3 calls)**

   ❖ **H2020-LC-NMBR-(27-32) 2018-2020: Clean Energy through Innovative Materials (2018,2019,2020), (6 calls)**

   ❖ **H2020-NMBR-(33) 2018-2020: Cultural Heritage (2018), (1 call)**

   ❖ **H2020-LC-EEB-(01-06) 2018-2020: Energy Efficient Buildings (2018,2019,2020), (6 calls)**

❖ **Access to Risk Finance:**

   ❖Under 'Access to Risk Finance', Horizon 2020 helps companies and other types of organisation engaged in research and innovation (R&I) to gain easier access to debt and equity finance. The 'InnovFin' product range consists of a suite of tailored financial instruments complemented by a set of accompanying measures with a strong focus on SMEs and small, medium and large midcaps.

WP 2018-2020: Industrial Leadership

❖ **Innovation in SMEs - Work Programme 2018-2020**

Cross-border and cross-sectoral collaboration, innovation and entrepreneurship across different regions and value chains shall be promoted. Innovation actors, especially SMEs with mutually reinforcing competences, shall be supported in view of creating new industrial value chains

that foster the development of emerging industries in Europe.

❖ **Calls Group 1: H2020-INNOSUP-(01-09) for 2018-2019: For a better innovation support to SMEs**

  ❖ **INNOSUP-01-2018-2020: Cluster facilitated projects for new industrial value chains**

  ❖ **INNOSUP-02-2019-2020: European SME innovation Associate – pilot**

  ❖ **INNOSUP-03-2018: Blockchain and distributed ledger technologies for SMEs**

  ❖ **INNOSUP-04-2019: Workplace innovation uptake by SMEs**

  ❖ **INNOSUP-05-2018-2020: Peer learning of innovation agencies**

  ❖ **INNOSUP-06-2018: Supporting experimentation in innovation agencies**

  ❖ **INNOSUP-07-2019: European Open Innovation network in advanced technologies**

  ❖ **INNOSUP-09-2018: Design and development of a tool to support and improve the decision making process of investors for financing high-growth potential innovative SMES**

❖ **Calls Group 1: H2020-INNOSUP- (01,02,05,08) for 2020: For a better innovation support to SMEs**

  ❖ **INNOSUP-08-2020: Pan-European advanced manufacturing assistance and training for SMEs**

❖ **Other Actions: EEN, EUREKA, SME for Social Innovation**

WP 2018-2020: Societal Challenges 1
(Health, demographic change and wellbeing)

❖ **Calls Group 1: H2020-SC1-BHC-2018-2020 (30 Calls in 2018-2019):**

Better Health and care, economic growth and sustainable health systems

This call will aim at reconciling better health and healthy ageing with the need to develop sustainable health and care systems and growth opportunities for the health and care related industries.

❖ **Calls Group 2: H2020-SC1-DTH-2018-2020 (13 Calls in 2018-2019):**

Digital transformation in Health and Care

This call aims at supporting the management of health and wellbeing while empowering the participation of citizens and facilitating the transformation of health and care services to more digitised, person-centred and community-based care models, thereby enabling better access to healthcare and the sustainability of health and care systems.

❖ **Calls Group 3: H2020-SC1-FA-DTS-2018-2020 (3 Calls in 2018-2019):**

Trusted digital solutions and Cybersecurity in Health and Care

This call aims at multidisciplinary technologies and solutions in health and care with a focus on cybersecurity to assure data privacy, security and protection of health and care infrastructures. It addresses the need for secure and user-driven ICT-based solutions in early risk detection and interventions with big data approaches that enable aggregation of a variety of new and existing data sources such as medical records, registries, social platforms and other environmental, physiological and behavioural data, including data from large scale pilots on smart living environments.

WP 2018-2020: Societal Challenges 2
(Food security, sustainable agriculture and forestry, marine, maritime and inland water research and the bioeconomy)

❖ **Calls Group 1: H2020-SFS-2018-2020 Sustainable Food Security (35 calls in 2018-2020)**

The call advocates for food system approaches to tackle the inherent links between ecosystems, food production, the food chain and consumer health and wellbeing.

❖ **H2020-SFS-2018-2019-2020 (13 Calls in 2018-2019): From functional ecosystems to healthy food**

❖ **H2020 LC-SFS-2018-2019, etc (6 Calls in 2018-2019): Environment and climate-smart food production and consumption**

❖ **H2020- DT-SFS-2019 (6 Calls in 2018-2019): : Building capacities**

❖ **H2020- SFS-2019 (10 Calls in 2018-2019): Targeted international cooperation**

❖ **Calls Group 2: H2020-SC1-FA-DTS-2018-2020: - Blue Growth (10 calls in 2018-2020)**

This call will boost the blue economy by: i) Improving our integrated knowledge about the reciprocal impact of climate change on marine ecosystems and biological resources in order to effectively manage their response, mitigation and resilience capacities; ii) Preserving and sustainably exploiting marine and coastal ecosystems, and biological resources to deliver improved nutrition and health; iii) De-risking major investments and boosting blue innovations on land and at sea to develop new bio-based marine value chains and open up new markets; iv) Developing smart and connected territories between land and sea; and v) Strengthening the international research and innovation cooperation around seas and oceans, to promote a globally sustainable blue economy.

❖ **Calls Group 3: H2020-RUR-2018-2020: - Rural Renaissance (13 calls in 2018-2020)**

The call will renew relevant policies dealing with rural areas and their analytical support tools.

❖ **H2020-RUR-2018-2019: From farm to society: understanding dynamics and modernizing policies**

❖ **H2020-CE-RUR-2018-2019-2020: Organising sustainable food and non-food value chains under changing conditions**

❖ **H2020-DT-RUR-2018: Taking advantage of the digital revolution**

❖ **H2020-RUR-2018-2019-2020: Boosting innovation and enhancing the human and social capital in rural areas**

WP 2018-2020: Societal Challenges 3
(Secure, clean and efficient energy)

❖**Calls Group 1: H2020-LC-SC3-2018-2019-2020: Building a Low-carbon, Climate Resilient Future: Secure, Clean And Efficient Energy**

❖H2020-LC-SC3-EE-2018-2020: Energy Efficiency **(17 Calls in 2018-2020)**

❖H2020-LC-SC3-RES-2018-2020: Global Leadership in Renewables **(19 Calls in 2018-2020)**

❖H2020-LC-SC3-EC-2018-2020: Smart and clean energy for consumers **(3 Calls in 2018-2020)**

❖H2020-LC-SC3-ES-2019: Smart citizen-centred energy system **(8 Calls in 2018-2020)**

❖H2020-LC-SC3-SCC-2018-2020: Smart Cities and Communities **(1 Calls in 2018-2020)**

❖H2020-LC-SC3-NZE-2018-2020: Enabling near-zero CO2 emissions from fossil fuel power plants and carbon intensive industries **(6 Calls in 2018-2020)**

❖H2020-LC-SC3-JA-2018-2019: Joint Actions **(5 Calls in 2018-2019)**

❖H2020-LC-SC3-CC-2018-2019-2020: Cross-cutting issues **(6 Calls in 2018-2020)**

❖**Calls 2: Transforming the energy sector through digitization**

❖**Calls 3: SME Instrument & fast-track-to-innovation**

❖**Calls 4: Other Actions**

WP 2018-2020: Societal Challenges 4
(Smart, Green and Integrated Transport)

❖**Calls Group 1:** H2020-MG-2018-2019-2020: **Mobility for Growth**

❖H2020-LG-MG-2018-2019: Building A Low-carbon, Climate Resilient Future: Low-carbon And Sustainable Transport **(10 Calls in 2018-2019)**

❖H2020-MG-2-2018-2019: SAFE, Integrated And Resilient Transport Systems **(9 Calls in 2018-2019)**

❖H2020-MG-3-2018-2019: Global Leadership And Competitiveness **(3 Calls in 2018-2019)**

❖H2020-MG-4-2018-2019: Accounting For The People **(8 Calls in 2018-2019)**

❖**Calls Group 2:** H2020-DT-ART-2018-2019-2020: **Digitising and Transforming European Industry and Services: Automated Road Transport (6 Calls in 2018-2020)**

❖**Calls Group 3:** H2020-LC-GV-2018-2019-2020: **Building a low-carbon, climate resilient future: Green Vehicles (9 Calls in 2018-2020)**

❖**Calls Group 4: Other Actions (10 Actions in 2018-2020)**

❖**Calls Group 5:** H2020-MG-2018-2019-2020: Mobility for Growth 2018-2020 continued **(9 Calls in 2018-2020)**

WP 2018-2020: Societal Challenges 5
(Climate Action, Environment, Resource Efficiency and Raw Materials)

❖**Calls Group 1:** H2020-LC-CLA-2018-2019-2020: **Building a low-carbon, climate resilient future: climate action in support of the Paris Agreement (8 calls in 2018-2019)**

    ❖**H2020-LC-CLA-01-2018-2019:** Decarbonisation, Negative emissions and land-use based mitigation assessment, Climate change impacts in Europe, Resilience and sustainable reconstruction of historic areas to cope with climate change and hazard events, Human dynamics of climate change, Inter-relations between climate change, biodiversity and ecosystem services, The changing cryosphere: uncertainties, risks and opportunities, Addressing knowledge gaps in climate science. **(10 Calls in 2018-2019)**

❖**Calls Group 2:** H2020-SC5-2018-2019-2020: **Greening the economy in line with the Sustainable Development Goals** (SDGs) **(21 Calls in 2018-2020)**

    ❖**H2020-CE-SC5-2018-2020:** Connecting economic and environmental gains - the 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: Earth observation, Protecting and leveraging the value of our natural and cultural assets: Nature-based solutions, disaster risk reduction and natural capital accounting, Protecting and leveraging the value of our natural and cultural assets: Heritage alive,

❖**Calls Group 3:** Other Actions **(21 Actions in 2018-2020)**

WP 2018-2020: Societal Challenges 6
(Europe in a changing world - Inclusive, innovative and reflective societies)

❖**Calls Group 1:** H2020-MIGRATION-2018-2020: **Migration (8 calls in 2018-2019)**
- ❖The aim of the call is to produce evidence-based **recommendations for the global and European governance of migration of third country nationals** as well as innovative (including ICT) solutions for the successful integration of migrants into European host societies.

❖**Calls Group 2:** H2020-SC6-TRANSFORMATIONS-2018-2019-2020: **Socioeconomic and Cultural Transformations in the Context of the Fourth Industrial Revolution (14 Calls in 2018-2020)**
- ❖The aim of the call is to address the challenges linked to the compounded **socioeconomic and cultural origins and effects in Europe of the fourth industrial revolution in a context of globalisation and digitisation** and to provide alternative policy options.

❖**Calls Group 3:** H2020-SC6-GOVERNANCE-2018-2019-2020: **Governance for the Future (15 Calls in 2018-2020)**
- ❖The aim of the call is to enhance the evidence base and provide sound policy and technological options in order to develop adapted governance structures at various relevant levels.

❖**Calls Group 4: Other Actions(29 Actions in 2018-2020)**
- ❖ Support to R&I policy reform and evidence based policy making, Support to Open Science and to EU policy in the field of research and innovation, etc.

WP 2018-2020: Societal Challenges 7
(Secure societies - Protecting freedom and security of Europe and its citizens)

❖**Calls Group 1:** H2020-SU-INFRA-2018-2019-2020: **Protecting the infrastructure of Europe and the people in the European smart cities (2 calls in 2018-2020)**

❖**Calls Group 2:** H2020-SU-SEC-2018-2019-2020: **Security (15 Calls in 2018-2020)**

  ❖Disaster-Resilient Societies, Fight against Crime and Terrorism, Border and External Security, General Matters

❖**Calls Group 3:** H2020-SU-DS-2018-2019-2020: **Digital Security (4 Calls in 2018-2020)**

  ❖Cybersecurity, Digital Privacy and data protection, Management of cyber-attacks and other risks.

❖**Calls Group 4: Other Actions (4 Actions in 2018-2020)**

WP 2018-2020:
Spreading Excellence and Widening Participation

❖ **Calls Group 1: H2020-WIDESPREAD-2018-2020: WIDESPREAD**, Deadline – 15 Nov, 2018.

   ❖ Activities under this section are expected to contribute to the realisation of the research and innovation potential in all parts of Europe by promoting the **creation of Centres of Excellence**, reinforcing urban transition towards sustainability across Europe, **bringing high quality human resources to institutions** to implement structural change and further promoting **networking actions for sustained excellence**.

      ❖ **TEAMING means institution building.** Teaming projects create new or update existing centres of excellence in Widening countries through a coupling process with a leading scientific institution (for participants of 2017 Teaming Calls).

      ❖ **TWINNING stands for institutional networking**. A twinning project strengthens a specific field of research in an emerging institution in a Widening country. It links the institution with at least two internationally leading counterparts in Europe. Activities like short-term staff exchanges, expert visits, on-site or virtual trainings, workshops, conference attendance, dissemination and outreach are supported.

      ❖ **ERA Chairs stands for excellence to institution.** ERA Chairs projects bring outstanding academics, with proven research excellence and management skills, to universities and research institutions in Widening countries with potential for research excellence.

❖ **Calls Group 2: H2020-SU-DS-2018-2019-2020: Widening Fellowships**, Deadline – 12 Sept, 2018 and 11 Sept, 2019.

   ❖ The goal of the **Individual Fellowships** is to enhance the creative and innovative potential of **experienced researchers**, wishing to diversify their individual competence in terms of skill acquisition through advanced training, international and intersectoral mobility. Widening fellowships, in particular, provide specific **support to researchers to undertake their fellowship in a widening country**.

❖ **Other Actions:**

   ❖ **COST,**

   ❖ **Two-day conference (WIRE IX) will be organised in 2018 during the EU Austrian Presidency** (Presidency Conference) in Innsbruck

   ❖ **Two-day conference (WIRE X) will be organised in 2019 during the EU Romanian Presidency** (Presidency Conference) in Iași

WP 2018-2020:
Science with and for Society

❖**Calls Group 1:** H2020-SwafS-2018-2020: **Science with and for Society**

Science with and for society will help citizens, organisations and territories to open a new chapter of their development through joint research and innovation activities in five strategic orientations. It will contribute to the implementation of Responsible Research and Innovation through institutional governance changes in Research Performing (RPOs) and Funding Organisations (RFOs), focusing on developing new partnerships and involving researchers, policy makers, citizens and industry.

   ❖**Strategic orientation 1. Accelerating and catalysing processes of institutional change, (8 Calls in 2018-2019)**

   ❖**Strategic orientation 2. Stepping up support to Gender Equality in Research & Innovation policy, (5 Calls in 2018-2019)**

   ❖**Strategic orientation 3. Building the territorial dimension of SwafS partnerships (2 Calls in 2018-2019)**

   ❖**Strategic orientation 4. Exploring and supporting citizen science (2 Calls in 2018-2019)**

   ❖**Strategic orientation 5. Building the knowledge base for SwafS (5 Calls in 2018-2019)**

❖**Calls Group 2:** Other Actions **(21 Actions in 2018-2019)**

   ❖ Gender equality in Research and Innovation, European Union Contest for Young Scientists, Euroscience Open Forum, EURAXESS, RESAVER, Innovative Doctoral Training Principles, RRI, HR Strategy,etc

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Funding opportunities under Horizon 2020 are set out in multiannual work programmes, which cover the large majority of support available. The work programmes are prepared by the European Commission within the framework provided by the Horizon 2020 legislation and through a strategic programming process integrating EU policy objectives in the priority setting.

The preparation of work programmes involves the consultation of stakeholders. For this purpose 19 Horizon 2020 Advisory Groups have been set up as consultative bodies representing the broad constituency of stakeholders ranging from industry and research to representatives of civil society. Additional open and targeted consultation activities aim to obtain further views and contributions, including from the Enterprise Policy Group, European Innovation Partnerships and European Technology Platforms.

The findings of broader stakeholder consultations on related policy priorities (e.g. Digital Single Market, Energy Union etc.) are also taken into account.

The main Horizon 2020 work programme is complemented by the separate work programmes for the European Research Council, Euratom, the Joint Research Centre and the Strategic Innovation Agenda for the European Institute of Innovation and technology (EIT).

Work Programme 2018 - 2020

The current main Horizon 2020 work programme comprises an introduction, 17 thematic sections and the general annexes describing general rules such as standard admissibility conditions and eligibility criteria, selection and award criteria, etc.

Each thematic section is self-contained, and describes the overall objectives, the respective calls for proposals, and the topics within each call. You can find more detailed information including budget allocation here or in the programme sections.

A novelty in this work programme are the four mutually reinforcing Focus Areas that cut across the programme boundaries and are aligned to major policy priorities: 'Building a low-carbon, climate resilient future' (LC); 'Connecting economic and environmental gains – the Circular Economy' (CE); 'Digitising and transforming European industry and services' (DT); and 'Boosting the effectiveness of the Security Union' (SU). Together these Focus Areas give a combined budget of over €7 billion EURO

#H2020

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A BIG thank you to all who have shown their support so far for #EUfunded #research & #innovation post #H2020 👀👀 #InvestEUresearch ᴇᴜ twitter.com/EU_H2020/stat u...

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How to get funding?

Article | Newsroom

Interested in learning more about EU funding opportunities for your research or innovation project? Then the European Commission's Participant Portal is the place you need to go.

Participant Portal

Two year work programmes announce the specific areas that will be funded by Horizon 2020. Look out for them on the online Participant Portal as they can be used as a calendar for the calls for proposals ('calls'), to be published during the year. The Participant Portal is your entry point for electronic administration of EU-funded research and innovation projects, and hosts the services for managing your proposals and projects throughout their lifecycle.

Each call gives more precise information on the questions that the Commission would like you to address in your proposals. All calls can be found in the EU's Official Journal – the official source for all EU documents – as well as on the Participant Portal

The application process

Submit your proposal

If you wish to respond to a call, you must submit a proposal before the deadline. The Participant Portal has clear instructions to guide you through the process. The system is simpler than ever – no more paper! All proposals are submitted online.

Find your partners

Many calls require a team of at least three partners. If you need help to identify a potential partner with particular competences, facilities or experience, use the partner search options.

Evaluation by experts

Once the deadline has passed, all proposals are evaluated by a panel of independent specialists in their fields. The panel checks each proposal against a list of criteria to see if it should receive funding.

Grant agreement

Once a proposal passes the evaluation stage (five months' duration), applicants are informed about the outcome. The European Commission then draws up a grant agreement with each participant. The grant agreement confirms what research & innovation activities will be undertaken, the project duration, budget, rates and costs, the European Commission's contribution, all rights and obligations

Search

#H2020

Horizon 2020
@EU_H2020

A BIG thank you to all who have shown their support so far for #EUfunded #research & #innovation post #H2020 👀👀 #InvestEUresearch ᴇᴜ twitter.com/EU_H2020/stat u...

Horizon 2020
@EU_H2020

Looking for funding for your #research or #innovation projects? Check out the new opportunities in #H2020 ᴇᴜ #InvestEUresearch twitter.com/EU_H2020/stat

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European Institute of Innovation and Technology (EIT)

Work Programmes
2014-15
2016-17
2018-20

H2020 Work Programmes 2018-2020

Main WP
1. Introduction 2018-20
2. Future and Emerging Technologies (FETs) 2018-20
3. Marie Skłodowska-Curie actions (MSCA) 2018-20
4. Research infrastructures (including e-Infrastructures) 2018-20
5. Introduction to Leadership in enabling and industrial technologies (LEITs) 2018-20
5i. Information and communication technologies (ICT) 2018-20
5ii. Nanotechnologies, advanced materials, advanced manufacturing and processing, biotechnology 2018-20
5iii. Space 2018-20
6. Access to risk finance 2018-20
7. Innovation in SMEs 2018-20
8. Health, demographic change and well-being 2018-20
9. Food security, sustainable agriculture and forestry, marine and maritime and inland water research and the bioeconomy 2018-20
10. Secure, clean and efficient energy 2018-20
11. Smart, green and integrated transport 2018-20
12. Climate action, environment, resource efficiency and raw materials 2018-20
13. Europe in a changing world - inclusive, innovative and reflective societies 2018-20
14. Secure societies – protecting freedom and security of Europe and its citizens 2018-20
15. Spreading excellence and widening participation 2018-20
16. Science with and for society 2018-20
17. European Innovation Council (EIC) 2018-20
18. Dissemination, Exploitation and Evaluation 2018-20
General Annexes to the Main WP
General Annexes 2018-20
European Research Council
ERC Work Programme 2018
Euratom
Euratom Work Programme 2018-20
Grant agreements, contracts and rules of contest
Model grant agreements
Model rules of contest of prizes
Model experts contracts

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Due to maintenance activities Participant Portal services might be unavailable for short periods of time on Tuesday 31st of October, between 16:00 and 23:59 (CET). We apologise for any inconvenience this may cause.

Horizon 2020 Funding
Starting from 1/1/2014

On this site you can find and secure funding for projects under the following EU programmes:
- **2014-2020** Horizon 2020 - research and innovation framework programme
- **2007-2013** 7th research framework programme (FP7) and Competitiveness & Innovation Programme (CIP)
- **3rd** Health Programme, Asylum, Migration and Integration Fund, Consumer Programme, COSME, European Statistics Programme, Hercule III Programme, Internal Security Fund Borders, Internal Security Fund Police, Justice Programme, Pilot Projects and Preparatory Actions, Promotion of Agricultural Products Programme, Research Fund for Coal & Steel, Rights, Equality and Citizenship Programme and Union Civil Protection Mechanism

Non-registered users
- search for funding
- read the H2020 Online Manual & download the legal documents
- check if an organisation is already registered
- contact our support services or check our FAQs

Registered users
- submit your proposal
- sign the grant
- manage your project throughout its lifecycle
- register as expert advising the Commission

WHAT'S NEW? | FUNDING OPPORTUNITIES | HOW TO PARTICIPATE | WORK AS AN EXPERT | MY PERSONAL AREA | INFORMATION AND SUPPORT

Open Calls Selection

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RESEARCH & INNOVATION
Participant Portal

Search

European Commission > Research & Innovation > Participant Portal > Reference Documents

HOME | FUNDING OPPORTUNITIES | HOW TO PARTICIPATE | PROJECTS & RESULTS | EXPERTS | SUPPORT | LOGIN | REGISTER

Reference Documents
Beneficiary Register
Partner Search
Financial Viability Self-
SME Participation

Participant Portal Grant Management Services may be experiencing issues **Monday, 13.11.2017, from 07:45 until 08:10 (CET).**
We apologise for any inconvenience this may cause.

Reference Documents

This page includes all the H2020 & FP7 reference documents starting with legal documents and the Commission work programmes for research and innovation up to model grant agreements and guides for specific actions and horizontal issues. The documents are grouped by categories. It also includes reference documents of other EU programmes, as 3rd Health, Consumer, COSME and Research Fund for Coal and Steel programmes. To access a document:

- Click on a folder
- Click on ARROW to have more information about the document and its available translations

You can search a specific H2020 or FP7 document on the Europa Search service.

H2020 | Other EU programmes | FP7

All contents of the H2020 Grants Manual folder below are being transferred to the **ONLINE MANUAL**

Legislation
  Framework programmes (EC-Euratom)
  Rules for participation
  Specific programme
  European institute of Innovation and Technology (EIT)
Work Programmes
  2014-15
  2016-17

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homepage - H2020 Online Manual - Google Chrome
arch/participants/docs/h2020-funding-guide/index_en.htm

RESEARCH & INNOVATION
Participant Portal H2020 Online Manual

Search

H2020 Online Manual
  My Area - User account & roles
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    Roles & access rights
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  Grants
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        What you need to know about Horizon 2020 calls
      Find partners or apply as individual
      Register in the Beneficiary Register
        Registration of your organisation
        LEAR appointment
        Validation of potential beneficiaries
        Financial viability check
        Data update
        Certifications
      Submit a proposal
        Get prepared
        Electronic proposal submission
    From evaluation to grant signature
      Eligibility check
    Evaluation of proposals
      Eligibility and evaluation criteria

Grants

Applying for funding

| Find a call | Find partners | Register an organisation | Submit a proposal |

Evaluation & Grant signature

| Eligibility check | Evaluation of proposals | Grant preparation | Grant signature |

Grant management

| Keeping records | Amendments | Reports & payment requests | Deliverables |

| Dissemination & exploitation | Communicating your project | Acknowledgement of EU funding | Checks, audits, reviews & investigations |

Working as an expert

| Expert registration | Contracting & payment | Expert roles & tasks |

Cross-cutting priorities & issues

| International cooperation | Social Sciences & Humanities | Open access & Data management | Climate action & Sustainable development |

| Ethics | Gender | SMEs | ERA-NETs |

| Links to regional policy | Intellectual property | Innovation procurement |

My Area - User account & roles

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Horizon 2020 - Work Programme 2018-2020
Spreading Excellence and Widening Participation

WP 2018-2020: What is important and new?

- **FP9** – Lamy Report - LAB – FAB – APP — Investing in the European future we *want/ Report of the independent High Level Group on maximising the impact of EU Research & Innovation Programmes*

- **EIC – European Innovation Council Pilot** - *aims to support top-class innovators, start-ups, small companies and researchers with bright ideas that are radically different from existing products, services or business models, are highly risky and have the potential to scale up internationally.*

- **CSC – Common Support Center** - *shall provide **high quality services to all research DGs, executive agencies and joint undertakings** (JUs) implementing Horizon 2020: legal support, ex-post audit, IT systems and operations, business processes, programme information and data.*

- **Lamp Sum Pilot** - *Applicants propose a lump sum based on a detailed estimation of costs **(NMBP & HEALTH)**. Following evaluation of the proposal and taking into account expert advice, an individual lump sum is fixed in each grant agreement. It will remove all obligations on cost reporting, and remove the need for timesheets and for financial ex-post audits on costs incurred – removing a big part of the administrative burden on beneficiaries.*

- **MSCA -** *Applications to the 2018 and 2019 calls for Marie Skłodowska Curie actions Individual Fellowships **(MSCA-IF),** where the host organisation is located in an eligible widening country, will be automatically resubmitted to the call: **Widening Fellowship** in case their proposal fails to reach an adequate place in the ranking to be funded in the regular MSCA-IF call.*

- **RRI – Responsible Research and Innovation** – *is characterised as a process for better aligning research and innovation with the values, needs and expectations of society, implying particularly close cooperation between all stakeholders in the following: science education, public engagement, access to research results and the application of new knowledge in full compliance with gender and ethics considerations.*

- **Gender Issues** – *When **applying** for a grant under Horizon 2020, you are encouraged to promote gender balance at all levels in your teams and in management structures. Applicants should seek at having a balanced participation, as close as possible to **50%/50%,** of both men and women in the teams and among the leading roles (*at least 40%/60%).

- **Open access** can be defined as the practice of **providing on-line access to scientific information that is free of charge to the reader**. In the context of R&D, open access typically focuses on access to '*scientific information*' or '*research results'*. In the context of Horizon 2020 - the rules on **open access to scientific publications** is an *obligation*, as well as **open access to research data** and **research data management.**

- **AMGA, IPR, ethic issues, real practical application/technology transfer**, etc.

Contacts:

https://ec.europa.eu/programmes/horizon2020/en/what-horizon-2020

http://www.asm.md/

http://cpi.asm.md/

http://h2020.md/

http://euraxess.md/

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