

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 (budget of €24.5 billion)
- Strengthening Industrial leadership in Innovation (budget of €22.6 billion), including investment in key technologies, access to capital and support for SMEs
- Address Societal challenges (budget of €31 billion) such as climate change, sustainable transport and mobility, affordable renewable energy, food security, ageing population

This Guide to Horizon 2020 provides an overview of Calls, themes and deadlines from 2014 Calls for Proposals within the **Marie Curie, eInfrastructures, Leadership in Enabling and Industrial Technologies** (LEIT - Components and Systems, Advanced Computing, Future Internet, Content Technologies and Information Management, Robotics and Key enabling Technologies (Micro-nano-electronics and photonics)) and each of the **Societal Challenges** (Health, Food Security and Agriculture, Energy, Transport, Environment, Inclusive and Reflective Societies, Secure Societies) Work Programmes.

The Work Programmes for each thematic area were published on 11 December 2013. 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 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 calls open in 2014 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 Work Programmes	http://www.ist-africa.org/home/files/1587600-guidetoict-relatedactivitiesinhwp_en.pdf
Horizon 2020 Calls – Participants Portal	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/index.html
IST-Africa Guide to 2014 Calls within Horizon 2020	http://www.ist-africa.org/home/files/IST-Africa_Guide_2014Calls_Horizon2020.pdf

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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)	http://cordis.europa.eu/fp7/ict/programme/fet_en.html
Marie Curie Actions	http://ec.europa.eu/research/mariecurieactions/
Research infrastructures (including eInfrastructures)	http://ec.europa.eu/research/infrastructures/index_en.cfm

Marie Curie

Marie Curie Work Programme 2014 – 2015 Work Programme	http://www.ist-africa.org/home/files/1587755-03_msca_calls_wp2014-2015_en.pdf
Deadline 24 April 2014	
H2020-MSCA-RISE (Research and Innovation Staff Exchange) – 2014	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/calls/h2020-msca-rise-2014.html
Deadline 09 April 2014	
H2020-MSCA-ITN (Innovative Training Networks)-2014	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/calls/h2020-msca-itn-2014.html

eInfrastructures

Research Infrastructures Work Programme (including eInfrastructures)	http://www.ist-africa.org/home/files/1587756-04_european_research_infra_wp_2014-2015_en.pdf
Deadline 15 April 2014	
H2020-eInfrastructures-2014-1	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/calls/h2020-einfra-2014-1.html
Deadline 14 May 2014	
H2020-INFRA supp-2014-1	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/calls/h2020-infrasupp-2014-1.html
Deadline 02 Sept 2014	
H2020-eInfrastructures-2014-2	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/calls/h2020-einfra-2014-2.html
Deadline 02 Sept 2014	
H2020-INFRA supp-2014-2	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/calls/h2020-infrasupp-2014-2.html

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 2014 – 2015	http://www.ist-africa.org/home/files/1587758-05i_ict_wp_2014-2015_en.pdf
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ICT related challenges include Components and Systems, Advanced Computing, Future Internet, Content Technologies and Information Management, Robotics and Key enabling Technologies (Micro-nano-electronics and photonics). The total budget available in 2014 is approximately EUR 734 million.

ICT – Call 1a – Deadline 23 April 2014

ICT-01-2014: Smart Cyber-Physical Systems	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/78-ict-01-2014.html
ICT-02-2014: Smart System Integration	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/79-ict-02-2014.html
ICT-03-2014: Advanced Thin, Organic and Large Area Electronics (TOLAE) technologies	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/80-ict-03-2014.html
ICT-05-2014: Smart Networks and novel Internet Architectures	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/81-ict-05-2014.html
ICT-06-2014: Smart optical and wireless network technologies	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/82-ict-06-2014.html
ICT-07-2014: Advanced Cloud Infrastructures and Services	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/83-ict-07-2014.html
ICT-09-2014: Tools and Methods for Software Development	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/84-ict-09-2014.html
ICT-11-2014: FIRE+ (Future Internet Research & Experimentation)	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/85-ict-11-2014.html
ICT-13-2014: Web Entrepreneurship	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/86-ict-13-2014.html
ICT-15-2014: Big data and Open Data Innovation and take-up	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/87-ict-15-2014.html
ICT-17-2014: Cracking the language barrier	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/88-ict-17-2014.html

ICT-18-2014: Support the growth of ICT innovative Creative Industries SMEs	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/89-ict-18-2014.html
ICT-21-2014: Advanced digital gaming/gamification technologies	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/90-ict-21-2014.html
ICT-22-2014: Multimodal and Natural computer interaction	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/91-ict-22-2014.html
ICT-23-2014: Robotics	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/92-ict-23-2014.html
ICT-26-2014: Photonics KET	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/93-ict-26-2014.html
ICT-29-2014: Development of novel materials and systems for OLED lighting	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/94-ict-29-2014.html
ICT-31-2014: Human-centric Digital Age	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/95-ict-31-2014.html
ICT-32-2014: Cybersecurity, Trustworthy ICT	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/96-ict-32-2014.html
ICT-33-2014: Trans-national co-operation among National Contact Points	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/97-ict-33-2014.html
ICT-35-2014: Innovation and Entrepreneurship Support	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/98-ict-35-2014.html

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/1587763-08_health_wp2014-2015_en.pdf
Food Security, Sustainable Agriculture, Marine and Maritime Research, and the Bio-Economy Work Programme	http://www.ist-africa.org/home/files/1587800-09_food_sc2_wp_2014-2015_en.pdf
Secure, Clean and Efficient Energy Work Programme	http://www.ist-africa.org/home/files/1587801-10_energy_wp_2014-2015_en.pdf
Smart, Green and Integrated Transport Work Programme	http://www.ist-africa.org/home/files/1587802-11_smart_gr_int-transport_wp2014-2015_en.pdf
Climate Action, Resource Efficiency and Raw Materials Work Programme	http://www.ist-africa.org/home/files/1587803-12_climate_wp2014-2015_en.pdf
Inclusive, Innovative and Reflective Societies Work Programme	http://www.ist-africa.org/home/files/1587804-13_sc6_wp2014-2015_en.pdf
Secure Societies Work Programme	http://www.ist-africa.org/home/files/1587805-14_secure_societies_wp2014-2015_en.pdf

Societal Challenge 1: Health Demographic Change and Wellbeing

The Horizon 2020 Societal Challenge of '[Health, Demographic Change and Wellbeing](#)' (SC1) for 2014 and 2015 includes 34 topics in the 'personalising health and care' focus area call (15 in 2014 only, 17 in 2015 only and 2 which are open in both years) and 16 topics in the 'co-ordination activities' call (11 in 2014 and 5 in 2015). The total budget available for 2014 is (€589 million).

Topics in the call are divided into 7 areas that reflect the need for a transnational and integrated approach to the challenge, providing support both to longer and mid-term research as well as to shorter-term innovation activities. Topics in the areas of 'understanding health...' and 'improved health information and data exploitation' provide underpinning, longer term support to topics in the areas of 'prevention...', 'diagnosis...', 'treatment..', 'advancing active and healthy ageing' and 'delivering integrated, sustainable and citizen centred care'.

Work to be supported by these topics will improve our understanding of the causes and mechanisms underlying health, healthy ageing and disease; improve our ability to monitor health and to prevent, detect, treat and manage disease; support older persons to remain active and healthy; and test and demonstrate new models and tools for health and care delivery. In doing so, support will be provided to research and innovation performers, including significant, tailored support to SMEs.

Societal Challenge 1: Health Demographic Change and Wellbeing http://ec.europa.eu/programmes/horizon2020/en/h2020-section/health-demographic-change-and-wellbeing	
Two Stage Calls 2014 – Stage 1 Deadline 11 March, Stage 2 Deadline 19 August	
Understanding Health, Ageing and Disease	
PHC 1 - 2014: Understanding health, ageing and disease: determinants, risk factors and pathways	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2258-phc-01-2014.html
Effective Health Promotion, Disease Prevention, Preparedness and Screening	
PHC 5 - 2014: Health promotion and disease prevention: translating 'omics' into stratified approaches	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2259-phc-05-2014.html
PHC 6 - 2014: Evaluating existing screening and prevention programmes	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2260-phc-06-2014.html
Improving Diagnosis	
PHC 10 – 2014: Development of new diagnostic tools and technologies: in vitro devices, assays and platforms	http://ec.europa.eu/research/participants/portal4/desktop/en/opportunities/h2020/topics/2261-phc-10-2014.html
Innovative Treatments and Technologies	
PHC13 - 2014: New therapies for chronic non-communicable diseases	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2262-phc-13-2014.html
PHC 17 - 2014: Comparing the effectiveness of existing healthcare interventions in the elderly	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2263-phc-17-2014.html

Integrated, Sustainable, Citizen-centred Care	
PHC 23 – 2014: Developing and comparing new models for safe and efficient, prevention oriented health and care systems	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2264-phc-23-2014.html
PHC 32 - 2014: Advancing bioinformatics to meet biomedical and clinical needs	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2265-phc-32-2014.html
Single Stage Calls 2014 – Deadline 15 April	
Effective Health Promotion, Disease Prevention, Preparedness and Screening	
PHC 7 - 2014: Improving the control of infectious epidemics and foodborne outbreaks through rapid identification of pathogens (also see Societal Challenge 2)	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2250-phc-07-2014.html
PHC 8 - 2014: Vaccine development for poverty-related and neglected infectious diseases: Tuberculosis	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2251-phc-08-2014.html
Innovative Treatments and Technologies	
PHC 15 – 2014/2015: Clinical research on regenerative medicine	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2252-phc-15-2014.html
Advanced Active and Healthy Aging	
PHC 19 - 2014: Advancing active and healthy ageing with ICT: Service robotics within assisted living environments	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2253-phc-19-2014.html
PHC 20 - 2014: Advancing active and healthy ageing with ICT: ICT solutions for independent living with cognitive impairment	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2254-phc-20-2014.html
Integrated, Sustainable, Citizen-centred Care	
PHC 26 – 2014: Self-management of health and disease: citizen engagement and mHealth	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2255-phc-26-2014.html
Improved Health Information, Data Exploitation and Providing an Evidence Base for Health Policies and Regulation	
PHC 31 - 2014: Foresight for health policy development and regulation	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2256-phc-31-2014.html
PHC 34 - 2014: eHealth interoperability	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2257-phc-34-2014.html
Co-ordination Activities	
One Stage Calls 2014 – Deadline 15 April	
HCO 1 - 2014: Support for the European Innovation Partnership on Active and Healthy Ageing	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2209-hco-01-2014.html
HCO 2 - 2014: Joint Programming: Coordination Action for	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2210-hco-02-2014.html

the Joint Programming Initiative (JPI) "More Years, Better Lives - the Challenges and Opportunities of Demographic Change"	
HCO 4 - 2014: Support for international infectious disease preparedness research	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2211-hco-04-2014.html
HCO 5 - 2014: Global Alliance for Chronic Diseases: prevention and treatment of type 2 diabetes	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2212-hco-05-2014.html
HCO 7 - 2014: ERA-NET: Establishing synergies between the Joint Programming on Neurodegenerative Diseases Research and Horizon 2020	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2213-hco-07-2014.html
HCO 8 - 2014: ERA-NET: Aligning national/regional translational cancer research programmes and activities	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2214-hco-08-2014.html
HCO 9 - 2014: ERA-NET: Systems medicine to address clinical needs	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2215-hco-09-2014.html
HCO 10 - 2014: ERA NET: Rare Disease research implementing IRDiRC objectives	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2216-hco-10-2014.html
HCO 14 – 2014: Bridging the divide in European health research and innovation	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2217-hco-14-2014.html
HCO 15 – 2014: Mobilisation and mutual learning action plan	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2218-hco-15-2014.html
HCO 16 - 2014: National Contact Points	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2219-hco-16-2014.html

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

The Horizon 2020 Societal Challenge of '[Food Security, Sustainable Agriculture, Marine and Maritime Research and the Bio-economy](#)' (SC2) for 2014 and 2015 is composed of three calls, two highly cross-cutting calls on 'Sustainable Food Security' and on 'Blue Growth' (to which other parts of Horizon 2020 contribute directly and indirectly) and a call aiming at fostering an 'Innovative, Sustainable and Inclusive Bioeconomy'. Activities under this Societal Challenge also contribute directly to calls published under other parts of the Work Programme, such as 'Personalising Health and Care' (Topic PC-7), 'Waste: a Resource to Recycle, Reuse and Recover Raw Materials' (WASTE-2, WASTE-7) and 'Water Innovation: Boosting its Value for Europe'(WATER-4, SFS-2, SFS-4, SFS-8, SFS-11, ISIB-4, ISIB-5, ISIB-12 & WASTE-7 also contribute to "Water Innovation: boosting its value for Europe").

While all calls for open to third country participation, certain topics have been specifically flagged as particularly well suited for international cooperation, stemming from the EU - China dialogue on research and innovation and the China-EU Task Force on Food, Agriculture and Biotechnology (SFS-1A; SFS-1B; SFS-3B; SFS-4; SFS-13; WASTE-2, WASTE-7), the Transatlantic Research Alliance, launched by the Galway Statement on Atlantic Ocean Cooperation (BG-1; BG-7; BG-8; BG-13; BG-14; BG-15), the International KBBE Forum between the EU, Australia,

Canada and New Zealand (SFS-10; SFS-16), the EU - Africa dialogue on research and innovation (SFS-6, SFS-18), or concerning other issues (SFS-3A; SFS-5; SFS-10; SFS-7B; SFS-14A; SFS-15; SFS-16; SFS-19B; SFS-20; BG-14; BG-15; ISIB-3; ISIB-9; ISIB-11; ISIB-12; PHC-7). For these topics, participation from targeted countries or regions will be positively considered during the evaluation of proposals.

The total budget available for 2014 is approximately EUR 255 million.

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>

Two Stage Calls 2014 – Stage 1 Deadline 12 March, Stage 2 26 June

CALL SUSTAINABLE FOOD SECURITY

Sustainable Food Production Systems

SFS-1A-2014: Genetics and nutrition and alternative feed sources for terrestrial livestock production	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2320-sfs-01a-2014.html
SFS-1B-2014: Tackling losses from terrestrial animal diseases	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2333-sfs-01b-2014.html
SFS-2A-2014: Sustainable Crop Production – External nutrient inputs	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2321-sfs-02a-2014.html
SFS-3A-2014: Practical solutions for native and alien pests affecting plants: Native and alien pests in agriculture and forestry	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2322-sfs-03a-2014.html
SFS-3B-2014: Practical solutions for native and alien pests affecting plants: EU-China cooperation on IPM in agriculture	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2334-sfs-03b-2014.html
SFS-4-2014: Soil quality and function	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2323-sfs-04-2014.html
SFS-7A-2014: Genetic resources and agricultural diversity for food security, productivity and resilience: Traditional resources for agricultural diversity and the food chain	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2324-sfs-07a-2014.html
SFS-9-2014: Towards a gradual elimination of discards in European fisheries	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2325-sfs-09-2014.html
SFS-10A-2014: Tackling disease related challenges and threats faced by European farmed aquatic animals: Scientific basis and tools for preventing and mitigating parasitic diseases of European farmed fish	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2326-sfs-10a-2014.html
SFS-11A-2014: Implementation of an Ecosystem-based approach for European aquaculture: Optimizing space availability for European Aquaculture	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2327-sfs-11a-2014.html

CALL SAFE FOOD, HEALTHY DIETS AND SUSTIANABLE CONSUMPTION	
Safe Food and Healthy Diets and Sustainable Consumption	
SFS-12-2014: Assessing the health risks of combined human exposure to multiple food-related toxic substances	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2328-sfs-12-2014.html
SFS-14A-2014: Authentication of food products: Authentication of olive oil	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2329-sfs-14a-2014.html
SFS-15-2014: Proteins of the future	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2330-sfs-15-2014.html
SFS-17-2014: Innovative solutions for sustainable novel food processing	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2331-sfs-17-2014.html
Global Drivers of Food Security	
SFS-19-2014: Sustainable food and nutrition security through evidence based EU agro-food policies	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2332-sfs-19-2014.html
CALL BLUE GROWTH: UNLOCKING THE POTENTIAL OF SEAS AND OCEANS	
Sustainably exploiting the Diversity of Marine Life	
BG-3-2014: Novel marine derived biomolecules and industrial biomaterials	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2460-bg-03-2014.html
BG-4-2014: Enhancing the industrial exploitation potential of marine-derived enzymes	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2461-bg-04-2014.html
New Offshore Challenges	
BG-6-2014: Delivering the sub-sea technologies for new services at sea	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2462-bg-06-2014.html
Ocean Observation Technologies/Systems	
BG-8-2014: Developing in-situ Atlantic Ocean Observations for a better management and sustainable exploitation of the maritime resources	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2463-bg-08-2014.html
BG-9-2014: Acoustic and imaging technologies	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2464-bg-09-2014.html
Horizontal Aspects	
BG-10-2014: Consolidating the economic sustainability and competitiveness of European fisheries and aquaculture sectors to reap the potential of seafood markets	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2465-bg-10-2014.html
CALL INNOVATIVE, SUSTAINABLE AND INCLUSIVE BIOECONOMY	
Sustainable Agriculture and Forestry	
ISIB-1-2014: Provision of public goods by EU agriculture and forestry: Putting the concept into practice	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2292-isib-01-2014.html
ISIB-4A-2014/2015: A. [2014] Improved forest data	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2293-isib-04a-2014.html

ISIB-5-2014: Renewable oil crops as a source of bio-based products	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2294-isib-05-2014.html
Single Stage Calls 2014 – Deadline 26 June	
CALL SUSTAINABLE FOOD SECURITY	
Sustainable Food Production Security	
SFS-6-2014: Sustainable Intensification Pathways of Agro-Food Systems in Africa	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2319-sfs-06-2014.html
CALL BLUE GROWTH: UNLOCKING THE POTENTIAL OF SEAS AND OCEANS	
New Offshore Challenges	
BG-5-2014: Preparing for the future innovative offshore economy	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2454-bg-05-2014.html
Horizontal Aspects	
BG-11-2014: Monitoring, Dissemination and Uptake of Marine and maritime research	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2455-bg-11-2014.html
BG-13-2014: Ocean Literacy – Engaging with Society – Social Innovation	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2456-bg-13-2014.html
BG-14-2014: Supporting International Cooperation Initiatives: Atlantic Ocean Cooperation Research Alliance	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2457-bg-14-2014.html
BG-15-2014: European Polar Research Cooperation	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2458-bg-15-2014.html
CALL INNOVATIVE, SUSTAINABLE AND INCLUSIVE BIOECONOMY	
Sustainable Agriculture and Forestry	
ISIB-2-2014/2015: Closing the research and innovation divide: the crucial role of innovation support services and knowledge exchange	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2284-isib-02-2014.html
Sustainable and Competitive Bio-based Industries	
ISIB-7-2014: Public procurement networks on innovative bio-based products	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2285-isib-07-2014.html
Cross-cutting Actions covering all Activities	
ISIB-8A-2014: Towards an innovative and responsible bioeconomy (A. Engaging society, reaching end users and linking with policy makers for a participative governance of the bioeconomy)	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2286-isib-08a-2014.html
ISIB-8B-2014: Towards an innovative and responsible bioeconomy (B. Bridging research and innovation efforts for a sustainable bioeconomy)	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2290-isib-08b-2014.html

ISIB-9-2014: Supporting National Contact Points for Horizon 2020 Societal Challenge 2 on 'Food Security, Sustainable Agriculture, Marine and Maritime Research and the Bioeconomy' and the Key Enabling Technology (KET) 'Biotechnology'	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2287-isib-09-2014.html
ISIB-10-2014: Networking of Bioeconomy relevant ERA-NETs	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2288-isib-10-2014.html
ISIB-11-2014: Coordination action in support of the implementation by participating States of a Joint Programming Initiative on Agriculture, Food Security and Climate Change	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2289-isib-11-2014.html
ISIB-12A-2014/2015: A [2014] Sustainable and resilient agriculture for food and non-food systems	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2291-isib-12a-2014.html

Societal Challenge 3: Secure, Clean and Efficient Energy

The Horizon 2020 Societal Challenge of "[Secure, clean and efficient energy](#)' (SC3) for 2014 and 2015 is composed of three focus areas "Energy Efficiency", "Competitive Low-Carbon Energy" and "Smart Cities and Communities". These activities cover the full innovation cycle – from 'proof of concept' to applied research, pre-commercial demonstration and market uptake measures². They also exploit synergies with other relevant areas, e.g. information and communication technologies. In addition, the Energy Challenge contributes to the 'Blue Growth' focus area as well as to the Public Private Partnerships Energy-efficient Buildings³ and Sustainable Process Industries (SPIRE - Topic EE18).

International cooperation with strategic partner countries and global technology leaders will support European energy and climate objectives and contribute to the global efforts to mitigate climate change and reduce CO₂ emissions. In line with the objectives of the EU's strategy for international cooperation in research and innovation, all activities are open for third country participants, while certain partner countries are also specifically targeted in a number of topics (Topics targeting third countries: LCE 13 (Brazil), LCE 15 (Australia, North-America) and LCE 16 (US, Canada).

The total budget available for 2014 is approximately EUR 563 million.

Societal Challenge 3: Secure, Clean and Efficient Energy http://ec.europa.eu/programmes/horizon2020/en/h2020-section/secure-clean-and-efficient-energy	
Two Stage Calls 2014 – Stage 1 Deadline 01 April, Stage 2 23 September	
CALL – COMPETITIVE LOW-CARBON ENERGY	
LCE 1 - 2014: New knowledge and technologies	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/1122-lce-01-2014.html
Renewable electricity and heating/cooling	
LCE 2 – 2014/2015: Developing the next generation technologies of renewable electricity and heating/cooling	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/1123-lce-02-2014.html
Sustainable biofuels and alternative fuels for the European transport fuel mix	
LCE 11 - 2014: Developing next generation technologies for	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/1124-lce-11-2014.html

biofuels and sustainable alternative fuels	
Enabling the decarbonisation of the use of fossil fuels during the transition to a low-carbon economy	
LCE 15 – 2014/2015: Enabling decarbonisation of the fossil fuel-based power sector and energy intensive industry through CCS	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/1125-lce-15-2014.html
LCE 16 – 2014: Understanding, preventing and mitigating the potential environmental impacts and risks of shale gas exploration and exploitation	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/1126-lce-16-2014.html
Single Stage Calls 2014 – Deadline 20 March	
CALL – ENERGY EFFICIENCY	
A – Buildings and consumers	
EE 1 – 2014: Manufacturing of prefabricated modules for renovation of buildings	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2066-ee-01-2014.html
EE 3 – 2014: Energy strategies and solutions for deep renovation of historic buildings	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2067-ee-03-2014.html
C - Industry and products	
EE 18 – 2014/2015: New technologies for utilization of heat recovery in large industrial systems, considering the whole energy cycle from heat production to transformation, delivery and end use (<i>please note that EE 18 has two deadlines – 20/03/14 & 09/12/14</i>)	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2068-ee-18-2014.html
Single Stage Calls 2014 – Deadline 01 April	
CALL – COMPETITIVE LOW-CARBON ENERGY	
Cross-cutting issues	
LCE 22 – 2014: Fostering the network of National Contact Points	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/1137-lce-22-2014.html
Single Stage Calls 2014 – Deadline 07 May	
CALL – COMPETITIVE LOW-CARBON ENERGY	
Renewable electricity and heating/cooling	
LCE 4 – 2014/2015: Market uptake of existing and emerging renewable electricity, heating and cooling technologies	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/1131-lce-04-2014.html
Modernising the European electricity grid	
LCE 7 – 2014: Distribution grid and retail market	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/1132-lce-07-2014.html

Providing the energy system with flexibility through enhanced energy storage technologies	
LCE 8 – 2014: Local / small-scale storage	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/1133-lce-08-2014.html
LCE 10 – 2014: Next generation technologies for energy storage	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/1134-lce-10-2014.html
Sustainable biofuels and alternative fuels for the European transport fuel mix	
LCE 14 – 2014/2015: Market uptake of existing and emerging sustainable bioenergy	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/1135-lce-14-2014.html
Supporting the development of a European research area in the field of energy	
LCE 18 – 2014/2015: Supporting Joint Actions on demonstration and validation of innovative energy solutions	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/1136-lce-18-2014.html
CALL – SMART CITIES AND COMMUNITIES	
SCC 1 – 2014/2015: Smart Cities and Communities solutions integrating energy, transport, ICT sectors through lighthouse (large scale demonstration - first of the kind) projects	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2145-scc-01-2014.html
Enhancing the roll-out of Smart Cities and Communities solutions by stimulating the market demand	
SCC 2 – 2014: Developing a framework for common, transparent data collection and performance measurement to allow comparability and replication between solutions and best-practice identification	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2146-scc-02-2014.html
SCC 4 – 2014: Establishing networks of public procurers in local administrations on smart city solutions	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2147-scc-04-2014.html
Single Stage Calls 2014 – Deadline 05 June	
CALL – ENERGY EFFICIENCY	
A – Buildings and consumers	
EE 4 – 2014: Construction skills	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2355-ee-04-2014.html
EE 5 – 2014/2015: Increasing energy performance of existing buildings through process and organisation innovations and creating a market for deep renovation	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2356-ee-05-2014.html
EE 7 – 2014/2015: Enhancing the capacity of public authorities to plan and implement sustainable energy policies and measures	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2357-ee-07-2014.html
EE 8 – 2014: Public procurement of innovative sustainable energy solutions	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2358-ee-08-2014.html
EE 9 – 2014/2015: Empowering stakeholders to assist public authorities in the definition and implementation of sustainable	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2359-ee-09-2014.html

energy policies and measures	
EE 10 – 2014/2015: Consumer engagement for sustainable energy	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2360-ee-10-2014.html
EE 11 – 2014/2015- New ICT-based solutions for energy efficiency	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2063-ee-11-2014.html
EE 12 – 2014: Socioeconomic research on energy efficiency	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2064-ee-12-2014.html
B – Heating and cooling	
EE 13 – 2014/2015: Technology for district heating and cooling	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2065-ee-13-2014.html
EE 14 - 2014/2015: Removing market barriers to the uptake of efficient heating and cooling solutions	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2361-ee-14-2014.html
C - Industry and products	
EE 15 – 2014/2015: Ensuring effective implementation of EU product efficiency legislation	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2362-ee-15-2014.html
EE 16 – 2014/2015: Organisational innovation to increase energy efficiency in industry	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2363-ee-16-2014.html
D - Finance for sustainable energy	
EE 19 – 2014/2015: Improving the financeability and attractiveness of sustainable energy investments	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2363-ee-16-2014.html
EE 20 – 2014/2015: Project development assistance for innovative bankable and aggregated sustainable energy investment schemes and projects	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2069-ee-20-2014.html
EE 21 – 2014/2015: Development and market roll-out of innovative energy services and financial schemes for sustainable energy	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2365-ee-21-2014.html
Single Stage Calls 2014 – Deadline 10 September	
CALL – COMPETITIVE LOW-CARBON ENERGY	
Renewable electricity and heating/cooling	
LCE 3 – 2014/2015: Demonstration of renewable electricity and heating/cooling technologies	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/1127-lce-03-2014.html
Sustainable biofuels and alternative fuels for the European transport fuel mix	
LCE 12 – 2014/2015: Demonstrating advanced biofuel technologies	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/1128-lce-12-2014.html

Supporting the development of a European research area in the field of energy	
LCE 19 – 2014/2015 : Supporting coordination of national R&D activities	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/1129-lce-19-2014.html
Social, environmental and economic aspects of the energy system	
LCE 20 – 2014: The human factor in the energy system	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/1130-lce-20-2014.html
Single Stage Calls 2014 – Deadline 09 December	
CALL – ENERGY EFFICIENCY	
A – Buildings and consumers	
EE 2 – 2015: Buildings design for new highly energy performing buildings	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2366-ee-02-2015.html
C - Industry and products	
EE 18 2014/2015: New technologies for utilization of heat recovery in large industrial systems, considering the whole energy cycle from heat production to transformation, delivery and end use (<i>please note that EE 18 has two deadlines – 20/03/14 & 09/12/14</i>)	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2068-ee-18-2014.html

Societal Challenge 4: Smart, green and integrated transport

The Horizon 2020 Societal Challenge of '[Smart, green and integrated transport](#)' (SC4) for 2014 and 2015 is structured in four broad lines of activities aiming at:

- Resource efficient transport that respects the environment.
- Better mobility, less congestion, more safety and security.
- Global leadership for the European transport industry.
- 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:

- Mobility for Growth
- Green Vehicles
- Small Business and Fast Track Innovation for Transport

The total 2014 budget available is approximately EUR 511 million.

Societal Challenge 4: Smart, green and integrated transport http://ec.europa.eu/programmes/horizon2020/en/h2020-section/smart-green-and-integrated-transport	
Two Stage Calls 2014 – Stage 1 Deadline 18 March, Stage 28 August	
CALL 'MOBILITY FOR GROWTH'	
1. Aviation	
MG.1.1-2014. Competitiveness of European aviation through cost efficiency and innovation	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2622-mg-1.1-2014.html
MG.1.3-2014 Seamless and customer oriented air mobility	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2623-mg-1.3-2014.html
MG.1.5-2014 Breakthrough innovation for European aviation	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2624-mg-1.5-2014.html
2. Rail	
MG.2.1-2014. I ² I – Intelligent Infrastructure	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2625-mg-2.1-2014.html
MG.2.2-2014. Smart rail services	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2626-mg-2.2-2014.html
MG.2.3-2014. New generation of rail vehicles	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2627-mg-2.3-2014.html
3. Road	
MG.3.1-2014. Technologies for low emission powertrains	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2628-mg-3.1-2014.html
MG.3.2-2014. Advanced bus concepts for increased efficiency	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2629-mg-3.2-2014.html
MG.3.3-2014. Global competitiveness of automotive supply chain management	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2630-mg-3.3-2014.html
MG.3.4-2014. Traffic safety analysis and integrated approach towards the safety of Vulnerable Road Users	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2631-mg-3.4-2014.html
MG.3.5a-2014. Cooperative ITS for safe, congestion-free and sustainable mobility [CSA Part]	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2632-mg-3.5a-2014.html
4. Waterborne	
MG.4.1-2014. Towards the energy efficient and very-low emission vessel	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2633-mg-4.1-2014.html
MG.4.2-2014. Safer and more efficient waterborne operations through new technologies and smarter traffic management	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2634-mg-4.2-2014.html
MG.4.4-2014. Advancing innovation in the Inland Waterways Transport (IWT) sector	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2635-mg-4.4-2014.html
5. Urban Mobility	
MG.5.1-2014. Transforming the use of conventionally fuelled vehicles in urban areas	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2636-mg-5.1-2014.html
MG.5.2-2014. Reducing impacts and costs of freight and	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2637-mg-5.2-2014.html

service trips in urban areas MG.5.3-2014. Tackling urban road congestion	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2638-mg-5.3-2014.html
6. Logistics	
MG.6.1-2014. Fostering synergies alongside the supply chain (including e.commerce)	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2639-mg-6.1-2014.html
MG.6.2-2014. De-stressing the supply chain	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2640-mg-6.2-2014.html
7. Intelligent Transport Systems	
MG.7.1-2014. Connectivity and information sharing for intelligent mobility	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2641-mg-7.1-2014.html
MG.7.2a-2014. Towards seamless mobility addressing fragmentation in ITS deployment in Europe	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2642-mg-7.2a-2014.html
8. Infrastructure	
MG.8.1a-2014. Smarter design, construction and maintenance	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2643-mg-8.1a-2014.html
MG.8.2a-2014. Next generation transport infrastructure: resource efficient, smarter and safer [RIA Part]	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2644-mg-8.2a-2014.html
Single Stage Calls 2014 – Deadline 27 March	
CALL ‘MOBILITY FOR GROWTH’	
1. Aviation	
MG.1.4-2014. Coordinated research and innovation actions targeting the highest levels of safety for European aviation	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2609-mg-1.4-2014.html
MG.1.6-2014. Improving skills and knowledge base in European aviation	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2610-mg-1.6-2014.html
MG.1.7-2014. Support to European aviation research and innovation policy	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2611-mg-1.7-2014.html
MG.1.8-2014-2015. International cooperation in aeronautics [CSA Part]	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2612-mg-1.8-2014.html
9. Socio-Economic and Behavioural Research and Forward Looking Activities for Policy Making	
MG.9.2-2014. User behaviour and mobility patterns in the context of major societal trends	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2613-mg-9.2-2014.html
MG.9.3-2014. Analysis of funding schemes for transport infrastructure	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2614-mg-9.3-2014.html
MG.9.4-2014. Research, technology development and market prospects for the European transport industries	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2615-mg-9.4-2014.html
MG.9.7-2014. Innovation awards for students and researchers in the context of the Transport Research Arena conference -	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2616-mg-9.7-2014.html

TRA 2016	
Single Stage Calls 2014 – Deadline 28 August	
CALL ‘MOBILITY FOR GROWTH’	
3. Road	
MG.3.5b-2014. Cooperative ITS for safe, congestion-free and sustainable mobility [CSA Part]	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2621-mg-3.5b-2014.html
7. Intelligent Transport Systems	
MG.7.2b-2014. Towards seamless mobility addressing fragmentation in ITS deployment in Europe [CSA Part]	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2618-mg-7.2b-2014.html
8. Infrastructure	
MG.8.1b-2014. Smarter design, construction and maintenance [CSA Part]	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2619-mg-8.1b-2014.html
MG.8.2b-2014. Next generation transport infrastructure: resource efficient, smarter and safer [CSA Part]	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2620-mg-8.2b-2014.html
9. Socio-Economic and Behavioural Research and Forward Looking Activities for Policy Making	
MG.9.6-2014. Strengthening the research and innovation strategies of the transport industries in Europe	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2617-mg-9.6-2014.html
CALL ‘GREEN VEHICLES’	
GV.1-2014. Next generation of competitive lithium ion batteries to meet customer expectations	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2601-gv-1-2014.html
GV.2-2014. Optimised and systematic energy management in electric vehicles	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2602-gv-2-2014.html
GV.3-2014. Future natural gas powertrains and components for cars and vans	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2603-gv-3-2014.html
GV.4-2014. Hybrid light and heavy duty vehicles	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2604-gv-4-2014.html
GV.5-2014. Electric two-wheelers and new light vehicle concepts	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2605-gv-5-2014.html
GV.7-2014. Future natural gas powertrains and components for heavy duty vehicles transport system and the grid	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2606-gv-7-2014.html

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

The Horizon 2020 Societal Challenge of '[Climate action, resource efficiency and raw materials](#)' (SC5) for 2014 and 2015 is composed of three calls,

- Waste: A Resource to Recycle, Reuse and Recover Raw Materials
- Water Innovation: Boosting its value for Europe
- Growing a Low Carbon, Resource Efficient Economy with a Sustainable Supply of Raw Materials

Actions under this Work Programme address gaps in the knowledge base needed to understand changes in the environment, identify the policies, methods and tools that would most effectively tackle the above mentioned challenges, and support innovators and businesses to bring green solutions to market. Waste and water are particular priorities, on the grounds of their substantial potential for business opportunities and job creation while tackling important resource efficiency challenges.

In addition to the calls below, activities relating to climate action, environment, resource efficiency and raw materials are also found in the calls relating to 'Blue growth: unlocking the potential of the oceans', 'Energy-efficiency' and 'Disaster-resilience: safeguarding and securing society, including adapting to climate change'.

The total budget available in 2014 is approximately EUR 339 million.

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
Two Stage Calls 2014 – Stage 1 Deadline 08 April, Stage 2 16 September		
Call – Waste: A Resource to Recycle, Reuse and Recover Raw Materials		
WASTE-1-2014: Moving towards a circular economy through industrial symbiosis		http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2111-waste-1-2014.html
WASTE-2-2014: A systems approach for the reduction, recycling and reuse of food waste		http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2112-waste-2-2014.html
Call – Water Innovation: Boosting its value for Europe		
WATER-1a-2014/2015: Bridging the gap: from innovative water solutions to market replication		WATER-1a-2014/2015: Bridging the gap: from innovative water solutions to market replication
WATER-2a-2014/2015: Integrated approaches to water and climate change [2a]		http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2578-water-2a-2014.html
Call – Growing a Low Carbon, Resource Efficient Economy with a Sustainable Supply of Raw Materials		
Fighting and Adapting to Climate Change		
SC5-1-2014: Advanced Earth-system models		http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2197-sc5-01-2014.html

SC5-3-2014: The economics of climate change and linkages with sustainable development: 3a - SC5-03a-2014: Economic assessment of climate change 3b - SC5-03b-2014: Linkages between climate change actions and sustainable development	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2198-sc5-03a-2014.html http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2201-sc5-03b-2014.html
Protecting the Environment, Sustainably Managing Natural Resources, Water, Biodiversity and Ecosystems	
SC5-6-2014: Biodiversity and ecosystem services: drivers of change and causalities	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2199-sc5-06-2014.html
Developing Comprehensive and Sustained Global Environmental Observation and Information Systems	
SC5-16-2014: Making Earth Observation and Monitoring Data usable for ecosystem modelling and services	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2200-sc5-16-2014.html
Single Stage Calls 2014 – Deadline 08 April	
Call – Waste: A Resource to Recycle, Reuse and Recover Raw Materials	
WASTE-3-2014: Recycling of raw materials from products and buildings	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2106-waste-3-2014.html
WASTE-4-2014/2015: Towards near-zero waste at European and global level: 4a - An EU near-zero waste stakeholder platform 4b - Global waste dimension 4c - Secondary raw materials inventory	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2107-waste-4a-2014.html http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2109-waste-4b-2014.html http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2110-waste-4c-2014.html
WASTE-5-2014: Preparing and promoting innovation procurement for resource efficiency	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2108-waste-5-2014.html
Call – Water Innovation: Boosting its value for Europe	
WATER-3-2014/2015: Stepping up EU research and innovation cooperation in the water area	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2574-water-3-2014.html
WATER-4a-2014/2015: Harnessing EU water research and innovation results for industry, agriculture, policy makers and citizens [4a]	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2575-water-4a-2014.html
WATER-5a-2014/2015: Strengthening international R&I cooperation in the field of water [5a]	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2050-sc5-05a-2014.html
Call – Growing a Low Carbon, Resource Efficient Economy with a Sustainable Supply of Raw Materials	
Fighting and Adapting to Climate Change	
SC5-5a-2014/2015: Coordinating and supporting research	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2050-sc5-05a-2014.html

and innovation for climate action [5a]	
Protecting the Environment, Sustainably Managing Natural Resources, Water, Biodiversity and Ecosystems	
SC5-8-2014: Preparing and promoting innovation procurement for soil decontamination	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2051-sc5-08-2014.html
SC5-9-2014: Consolidating the European Research Area on biodiversity and ecosystem services	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2052-sc5-09-2014.html
SC5-10-2014/2015: Coordinating and supporting research and innovation for the management of natural resources:	
• 10a - SC5-10a-2014: Enhancing mapping ecosystems and their services	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2053-sc5-10a-2014.html
• 10b - SC5-10b-2014: Structuring research on soil, land-use and land management in Europe	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2060-sc5-10b-2014.html
Ensuring the Sustainable Supply of Non-Energy and Non-Agricultural Raw Materials	
SC5-11-2014/2015: New solutions for sustainable production of raw materials:	
• 11a - SC5-11a-2014: Mining of small and complex deposits and alternative mining	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2054-sc5-11a-2014.html
• 11b - SC5-11b-2014: Flexible processing technologies	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2061-sc5-11b-2014.html
SC5-12-2014/2015: Innovative and sustainable solutions leading to substitution of raw materials [12a]	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2055-sc5-12a-2014.html
SC5-13-2014/2015: Coordinating and supporting raw materials research and innovation:	
• 13a - SC5-13a-2014: Mineral deposits of public importance	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2056-sc5-13a-2014.html
• 3b - SC5-13b-2014: Strategic international dialogues and cooperation on raw materials with technologically advanced countries	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2062-sc5-13b-2014.html
Enabling the Transition towards a Green Economy and Society through Eco-Innovation	
SC5-14-2014: Consolidating global knowledge on the green economy in support of sustainable development objectives in the EU and internationally	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2057-sc5-14-2014.html
Developing Comprehensive and Sustained Global Environmental Observation and Information Systems	
SC5-18-2014/2015: Coordinating and supporting Earth Observation research and innovation in the EU, and in the North African, Middle East, and Balkan region [18a]	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2058-sc5-18a-2014.html

Cross-Challenge Topics	
SC5-19-2014/2015: Coordinating and supporting research and innovation in the area of climate action, environment, resource efficiency and raw materials [19a]	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2059-sc5-19a-2014.html
Two Stage Calls 2014 – Stage 1 Deadline 16 October 2014, Stage 2 10 March 2015	
Call – Waste: A Resource to Recycle, Reuse and Recover Raw Materials	
WASTE-6a-2015: Eco-innovative solutions	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2114-waste-6a-2015.html
WASTE-6b-2015: Eco-innovative strategies	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2116-waste-6b-2015.html
WASTE-7-2015: Ensuring sustainable use of agricultural waste, co-products and by-products	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2115-waste-7-2015.html
Call – Water Innovation: Boosting its value for Europe	
WATER-1b-2015: Demonstration/pilot activities	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2582-water-1b-2015.html
WATER-2b-2015: Integrated approaches to food security, low-carbon energy, sustainable water management and climate change mitigation	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2583-water-2b-2015.html
WATER-5c-2015: Development of water supply and sanitation technology, systems and tools, and/or methodologies	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2584-water-5c-2015.html
Call – Growing a Low Carbon, Resource Efficient Economy with a Sustainable Supply of Raw Materials	
Fighting and Adapting to Climate Change	
SC5-4-2015: Improving the air quality and reducing the carbon footprint of European cities	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2194-sc5-04-2015.html
Protecting the Environment, Sustainably Managing Natural Resources, Water, Biodiversity and Ecosystems	
SC5-07-2015: More effective ecosystem restoration in the EU	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2195-sc5-07-2015.html
Developing Comprehensive and Sustained Global Environmental Observation and Information Systems	
SC5-17-2015: Demonstrating the concept of 'Citizen Observatories'	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2196-sc5-17-2015.html

Societal Challenge 6: Inclusive, innovative and reflective societies

Reducing inequalities and social exclusion in Europe (people at risk of poverty, young people not in education, employment or training), overcoming the economic and financial crisis and tackling unemployment (particularly youth unemployment) are crucial challenges for the future of Europe. There is also great potential for Europe through opportunities provided by new forms of innovation and citizen engagement.

Supporting inclusive, innovative and reflective societies is a prerequisite for sustainable European integration. The Horizon 2020 Societal Challenge of [‘Europe in a changing world – Inclusive, innovative and reflective societies’ \(SC6\)](#) for 2014 and 2015 is composed of four calls,

- Overcoming the Crisis: New Ideas, Strategies and Governance Structures for Europe
- the Young Generation in an Innovative, Inclusive and Sustainable Europe
- Reflective Societies: Cultural Heritage and European Identities
- Europe as a Global Actor
- New Forms of Innovation

The first aim is to gain a greater understanding of the societal changes in Europe and of their impact on social cohesion and to analyse and develop social, economic and political inclusion and positive inter-cultural dynamics in the EU and with international partners, through cutting-edge science and inter-disciplinarily, technological advances and organisational innovations (Call EURO, call YOUNG and Call INT).

The second aim is to foster the development of innovative societies and policies in Europe through the engagement of citizens, civil society organisations, enterprises and users in research and innovation and the promotion of coordinated research and innovation policies (Call INSO).

The third aim is to contribute to an understanding of Europe's intellectual basis, its history and the many European and non-European influences, as an inspiration for our lives today (Call REFLECTIVE).

As a horizontal activity, social sciences and humanities (SSH) research is fully integrated into each of the pillars of Horizon 2020 and each of the specific objectives. In relation to the societal challenges, SSH is mainstreamed as an important element of the activities needed to tackle each of them in order to enhance their impact. This societal challenge will support SSH research by focusing on inclusive, innovative and reflective societies.

The total budget available for 2014 is approximately EUR 112 million.

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
Single Stage Calls 2014 – Deadline 29 April		
Call - Europe as a Global Actor		
INT-1-2014/2015: Enhancing and focusing research and innovation cooperation with the Union's key international partner countries [Russia, China]	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/1065-int-01-2014.html	
INT-2-2014/2015: Encouraging the research and innovation cooperation between the Union and selected regional	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/1066-int-02-2014.html	

partners [Black Sea, Middle East, Africa]	
Call - New Forms of Innovation	
INSO-1-2014/2015: ICT-enabled open government	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2469-inso-1-2014.html
INSO-2-2014: Understanding and supporting business model innovation	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2470-inso-2-2014.html
INSO-3-2014: The economic impact of the Innovation Union	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2471-inso-3-2014.html
Europe in a changing world: inclusive, innovative and reflective societies	
INSO-6-2014: Platform for ICT for Learning and Inclusion	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2472-inso-6-2014.html
INSO-7-2014: Towards joint programming under Horizon 2020	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2473-inso-7-2014.html
INSO-8-2014: Synchronised Call initiatives	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2474-inso-8-2014.html
Single Stage Calls 2014 – Deadline 03 June	
Call - Overcoming the Crisis: New Ideas, Strategies and Governance Structures for Europe	
EURO-1-2014: Resilient and sustainable economic and monetary union in Europe	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2077-euro-1-2014.html
EURO-2-2014: The European growth agenda	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2078-euro-2-2014.html
EURO-3-2014: European societies after the crisis	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2079-euro-3-2014.html
EURO-4-2014: Political challenges for Europe	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2080-euro-4-2014.html
Call - the Young Generation in an Innovative, Inclusive and Sustainable Europe	
YOUNG-1-2014: Early job insecurity and labour market exclusion	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2095-young-1-2014.html
YOUNG-2-2014: Youth mobility: opportunities, impacts, policies	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2096-young-2-2014.html
YOUNG-5-2014: Societal and political engagement of young people and their perspectives on Europe:	
• 5a - YOUNG-5a-2014: Societal and political engagement of young people and their perspectives on Europe	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2097-young-5a-2014.html
• b - YOUNG-5b-2014: Societal and political engagement of young people and their perspectives on Europe	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2098-young-5b-2014.html

Call - Reflective Societies: Cultural Heritage and European Identities	
REFLECTIVE-1-2014: ERA-NET on Uses of the past	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2101-reflective-1-2014.html
Europe in a changing world: inclusive, innovative and reflective societies	
REFLECTIVE-9-2014: Social Platform on Reflective Societies	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2102-reflective-9-2014.html
REFLECTIVE-10-2014: Mobilising the network of National Contact Points in Societal Challenge 6	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2103-reflective-10-2014.html
Single Stage Deadline – 30 September	
Call - Reflective Societies: Cultural Heritage and European Identities	
REFLECTIVE-7-2014: Advanced 3D modelling for accessing and understanding European cultural assets	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2105-reflective-7-2014.html

Societal Challenge 7: Secure Societies

The Horizon 2020 Societal Challenge of [‘Secure Societies - Protecting freedom and security of Europe and its citizens’ \(SC7\)](#) for 2014 and 2015 is composed of four calls, addressing natural and man-made disasters,

- Call 1 - new crisis management tools to communication interoperability, and developing novel solutions for the protection of critical infrastructure
- Call 2 - fighting crime and terrorism ranging from new forensic tools to protection against explosives
- Call 3 - improving border security, ranging from improved maritime border protection to supply chain security and supporting the Unions external security policies including through conflict prevention and peace building
- Call 4 - providing enhanced cybersecurity (call 4), ranging from secure information sharing to new assurance models.

This Work Programme will contribute to the implementation of the policy goals of the Europe 2020 strategy, the Security Industrial Policy, the Internal Security Strategy and the Cyber Security Strategy.

The respect of privacy and civil liberties is a guiding principle throughout this Work Programme. All individual projects must meet the requirements of fundamental rights, including the protection of personal data, and comply with EU law in that regard.

Proposers are encouraged to use, where appropriate, the services provided by European space-based systems (e.g. EGNOS, Galileo or Copernicus).

The total budget available for 2014 is approximately EUR 178 million.

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
Single Call Calls 2014 – Deadline 13 May		
Call – Digital Security: Cybersecurity, Privacy and Trust		
DS-1-2014: Privacy		http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/99-ds-01-2014.html
DS-2-2014: Access Control		http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/1050-ds-02-2014.html
DS-6-2014: Risk management and assurance models		http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/1051-ds-06-2014.html
Single Stage Calls 2014 – Deadline 28 August		
Call - Disaster-resilience: safeguarding and securing society, including adapting to climate change		
I. Crisis management		
DRS-2-2014 Crisis management topic 2: Tools for detection, traceability, triage and individual monitoring of victims after a mass CBRN contamination and/or exposure		http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/1069-drs-02-2014.html
DRS-4- 2014: Crisis management topic 4: Feasibility study for strengthening capacity-building for health and security protection in case of large-scale pandemics – Phase I Demo		http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/1070-drs-04-2014.html
DRS-5-2014: Crisis management topic 5: Situation awareness of Civil Protection decision-making solutions – preparing the ground for a Pre-commercial Procurement (PCP)		http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/1071-drs-05-2014.html
DRS-7-2014: Crisis management topic 7: Crises and disaster resilience – operationalizing resilience concepts		http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/1072-drs-07-2014.html
DRS-8-2014: Crisis management topic 8: Trans-national co-operation among National Contact Points (NCPs) for Security		http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/1073-drs-08-2014.html
II. Disaster Resilience & Climate Change		
DRS-9-2014/2015: Disaster Resilience & Climate Change topic 1: Science and innovation for adaptation to climate change: from assessing costs, risks and opportunities to demonstration of options and practices		http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/1074-drs-09-2014.html
III. Critical Infrastructure Protection		
DRS-16-2014: Critical Infrastructure Protection topic 6: Improving the aviation security chain		http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/1075-drs-16-2014.html

IV. Communication technologies and interoperability	
DRS-18-2014: Communication technologies and interoperability topic 1: interoperable next generation of broadband radio communication system for public safety and security – Pre-commercial Procurement (PCP)	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/1076-drs-18-2014.html
DRS-19-2014: Communication technologies and interoperability topic 2: Next generation emergency services	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/1077-drs-19-2014.html
V. Ethical/Societal Dimension	
DRS-20-2014: Ethical/Societal Dimension topic 1: Improving protection of Critical infrastructures from insider threats	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/1078-drs-20-2014.html
DRS-21-2014: Ethical/Societal Dimension topic 2: Better understanding the links between culture, risk perception and disaster management	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/1079-drs-21-2014.html
Call – Fight against crime and Terrorism	
II. Law enforcement capabilities	
FCT-5-2014: Law enforcement capabilities topic 1: Develop novel monitoring systems and miniaturised sensors that improve Law Enforcement Agencies' evidence- gathering abilities	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/1105-fct-05-2014.html
FCT-7-2014: Law enforcement capabilities topic 3: Pan European platform for serious gaming and training	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/1106-fct-07-2014.html
FCT-8-2014: Law enforcement capabilities topic 4: Trans-national cooperation among public end-users in security research stakeholders	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/1107-fct-08-2014.html
III. Urban security	
FCT-10-2014: Urban security topic 1: Innovative solutions to counter security challenges connected with large urban environment	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/1108-fct-10-2014.html
FCT-11-2014: Urban security topic 2: Countering the terrorist use of an explosive threat, across the timeline of a plot, including the detection of explosives in a flow	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/1109-fct-11-2014.html
FCT-12-2014 Urban security topic 3: Minimum intrusion tools for de-escalation during mass gatherings improving citizens' protection	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/1110-fct-12-2014.html

IV. Ethical/Societal Dimension	
FCT-13-2014: Ethical/Societal Dimension Topic 1: Factors affecting (in-) security	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/1111-fct-13-2014.html
FCT-14-2014: Ethical/Societal Dimension Topic 2: Enhancing cooperation between law enforcement agencies and citizens - Community policing	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/1112-fct-14-2014.html
Call – Border Security and External Security	
I. Maritime Border Security	
BES-1-2014: Maritime Border Security topic 1: radar systems for the surveillance of coastal and pre-frontier areas and in support of search and rescue operations	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/1091-bes-01-2014.html
BES-3-2014: Maritime Border Security topic 3: Light optionally piloted vehicles (and sensors) for maritime surveillance	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/1092-bes-03-2014.html
III. Supply Chain Security	
BES-9-2014: Supply Chain Security topic 2: Technologies for inspections of large volume freight	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/1093-bes-09-2014.html
IV. External Security	
BES-11-2014: Information management topic 2: Information management, systems and infrastructure for civilian EU External Actions	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/1094-bes-11-2014.html
BES-12-2014: Conflict prevention and peace building topic 1: Enhancing the civilian conflict prevention and peace building capabilities of the EU	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/1095-bes-12-2014.html
V. Ethical Societal Dimension	
BES-14-2014: Ethical Societal Dimension topic 1: Human factors in border control	http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/1096-bes-14-2014.html

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 2014 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
International Cooperation Presentation on Horizon 2020 Presentation June 2012	http://www.ist-africa.org/home/files/InternationalCooperation_Horizon2020_June2012.pdf
Horizon 2020 Communication from European Commission November 2011	http://www.ist-africa.org/home/files/Horizon2020_EC_Communication_Nov2011.pdf
Innovation Union Europe 2020 Initiative	http://ec.europa.eu/research/innovation-union/index_en.cfm
International Cooperation in Horizon 2020 Presentation May 2013	http://www.ist-africa.org/home/files/ISTAfrica_Horizon2020_310513.pdf
ICT in Horizon 2020 Presentation June 2013	http://www.ist-africa.org/home/files/ICT_Horizon2020_MMoller_260613.pdf
ICT in Horizon 2020 - presentation by Mr Morten Moller, DG CONNECT; Nov 2013	http://www.ist-africa.org/home/files/ICT_Horizon_2020_DGCONNECT_311012_v2.1.pdf
Participation and Instruments in Horizon 2020 - presentation by Ingrid Mariën-Dusak, DG CONNECT, Nov 2013	http://www.ist-africa.org/home/files/Horizon2020_Participation_Instruments.pdf