

**2016-2017 Call topics under Horizon 2020 Societal Challenge 2: Food security, sustainable agriculture and forestry, marine and maritime and inland water research and the bioeconomy and related areas.** Data are based on published information in the Participant Portal - you are advised to check details after publication of updates on 4th October 2016. Updates to the 2017 calls are expected - discuss topics of interest with your NICP/NCP. You can request an electronic version of this file with active hyperlinks.

**Key: RIA - Research and Innovation Action; IA - Innovation Action; CSA - Coordination and Support Action; EJP - European Joint Programming;**

Topic Identifier	Topic Title	Funding Type	Eval. Type	Num Projects	Budget (€M)	Stage 1 Deadline	Stage 2 Deadline
<a href="#">Call for Sustainable Food Security – Resilient and resource-efficient value chains</a>							
<b>More resilient and resource efficient value chains</b>							
SFS-04-2017	New partnerships and tools to enhance European capacities for in-situ conservation	CSA	1 Stage	1	2	14-Feb-17	
SFS-05-2017	Robotics Advances for Precision Farming	RIA	1 Stage	2	7	14-Feb-17	
SFS-7-2016/ 2017	Organic Breeding – Increasing the competitiveness of the organic breeding and farming sectors	RIA	2 Stage	2 (2017)	12	14-Feb-17	13-Sep-17
SFS-08-2017	Organic Inputs – Contentious inputs in organic farming	RIA	2 Stage	2	8	14-Feb-17	13-Sep-17
SFS-10-2017	Research and approaches for emerging diseases in plants and terrestrial livestock	RIA	2 Stage	3	15	14-Feb-17	13-Sep-17
SFS-13-2017	Validation of diagnostic tools for animal and crop health	IA	1 Stage	2	6	14-Feb-17	
SFS-15-2016/ 2017	Breeding livestock for resilience and efficiency	RIA	2 Stage	1 (2017)	7	14-Feb-17	13-Sep-17
SFS-16-2017	Bee health and sustainable pollination	RIA	2 Stage	2	9	14-Feb-17	13-Sep-17
SFS-17-2017	Innovations in plant protection	RIA	2 Stage	3	10	14-Feb-17	13-Sep-17
SFS-20-2017	Towards a science-based regionalisation of the Common Fisheries Policy	RIA	2 Stage	1	6	14-Feb-17	13-Sep-17
SFS-21-2016/ 2017	Advancing basic biological knowledge and improving management tools for commercially important fish and other seafood species	RIA	2 Stage	1 (2017)	5	14-Feb-17	13-Sep-17
SFS-22-2017	Smart fisheries technologies for an efficient, compliant and environmentally friendly fishing sector	IA	1 Stage	1	6	14-Feb-17	
<b>Environment-smart and climate-smart primary production</b>							
SFS-27-2017	Permanent grassland – farming systems and policies	RIA	2 Stage	1	10	14-Feb-17	13-Sep-17
SFS-28-2017	Functional Biodiversity – Productivity gains through functional biodiversity – effective crop pollinators and pest predators interplay	RIA	2 Stage	1	10	14-Feb-17	13-Sep-17
SFS-29-2017	Socio-Eco-Economics – Socio economics in ecological approaches	RIA	2 Stage	1	5	14-Feb-17	13-Sep-17
SFS-30-2017	Closing loops at farm and regional levels to mitigate GHG emissions and environmental contamination: focus on carbon, nitrogen and phosphorus cycling in agro ecosystems	RIA	2 Stage	2	12	14-Feb-17	13-Sep-17
SFS-32-2017	Promoting and supporting eco-intensification of aquaculture production systems: inland (including fresh water), coastal zone and offshore	RIA	2 Stage	2	12	14-Feb-17	13-Sep-17
<b>A competitive food industry</b>							
SFS-34-2017	Innovative agro-food chains: unlocking the competitiveness and sustainability potential	RIA	2 Stage	1	6	14-Feb-17	13-Sep-17
SFS-35-2017	Innovative solutions for sustainable food packaging	IA	1 Stage	2	12	14-Feb-17	
<b>Healthy and safe foods and diets for all</b>							
SFS-36-2017	Co-fund on "One Health" (zoonoses – emerging threats)	EJP	1 Stage	1	35	14-Feb-17	13-Sep-17
SFS-39-2017	How to tackle the childhood obesity epidemic?	RIA	2 Stage	2	20	14-Feb-17	13-Sep-17
SFS-40-2017	Sweeteners and sweetness enhancers	RIA	2 Stage	1	9	14-Feb-17	13-Sep-17

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<b>Support to the Implementation of the EU-Africa Partnership on Food and Nutrition Security and Sustainable Agriculture</b>							
SFS-43-2017	Earth observation services for the monitoring of agricultural production in Africa	RIA	1 Stage	1	10	14-Feb-17	
<b>Implementation of the EU-China FAB Flagship initiative</b>							
SFS-46-2017	Alternative production system to address anti-microbial usage, animal welfare and the impact on health	RIA	2 Stage	1	5	14-Feb-17	13-Sep-17
SFS-47-2017	Soil water resources management in the EU and China and its impact on agro-ecosystem functions	RIA	2 Stage	1	5	14-Feb-17	13-Sep-17
SFS-48-2017	Resource-efficient urban agriculture for multiple benefits – Contribution to the EU-China Urbanisation Partnership	IA	1 Stage	1	7	14-Feb-17	
<a href="#"><u>Call for Blue Growth - Demonstrating an ocean of opportunities</u></a>							
<b>Innovation for emerging Blue Growth activities</b>							
BG-2-2016/2017	High value-added specialised vessel concepts enabling more efficient servicing of emerging coastal and offshore activities	IA	1 Stage	1 (2017)	8	14-Feb-17	
BG-4-2017	Multi-use of the oceans marine space, offshore and near-shore: Enabling technologies	IA	1 Stage	1	8	14-Feb-17	
<b>Linking healthy oceans and seas for healthy people</b>							
BG-6-2017	Interaction between humans, oceans and seas: a strategic approach towards healthcare and wellbeing	CSA	1 Stage	1	2	14-Feb-17	
BG-7-2017	Blue green innovation for clean coasts and seas	IA	1 Stage	2	12	14-Feb-17	
BG-8-2017	Innovative sustainable solutions for improving the safety and dietary properties of seafood	IA	1 Stage	1	7	14-Feb-17	
<b>The Arctic Dimension</b>							
BG-11-2017	Climate impacts on Arctic permafrost, with a focus on coastal areas, and its socio-economic impact	RIA	1 Stage	1	10	14-Feb-17	
<a href="#"><u>Call - Rural Renaissance - Fostering innovation and business opportunities</u></a>							
<b>New approaches towards policies and governance</b>							
RUR-02-2017	Coastal-rural interactions: Enhancing synergies between land and sea-based activities	RIA	2 Stage	1	5	14-Feb-17	13-Sep-17
RUR-03-2017	Towards 2030: Policies and decision tools for an integrated management of natural resources	RIA	2 Stage	1	8	14-Feb-17	13-Sep-17
RUR-05-2017	Novel public policies, business models and mechanisms for sustainable supply and payment of forest ecosystem services	IA	1 Stage	2	8	14-Feb-17	
<b>New value chains and business models</b>							
RUR-09-2017	Business models for modern rural economies	RIA	2 Stage	2	9	14-Feb-17	13-Sep-17
RUR-10-2016/2017	Thematic Networks compiling knowledge ready for practice	CSA	1 Stage	5 (2017)	10	14-Feb-17	
<b>Innovation and skill development</b>							
RUR-12-2017	Networking European farms to boost thematic knowledge exchanges and close the innovation gap	CSA	1 Stage	1	7	14-Feb-17	
RUR-13-2017	Building a future science and education system fit to deliver to practice	RIA	2 Stage	1	7	14-Feb-17	13-Sep-17
RUR-15-2017	The benefits of working with others – fostering social capital in the farming sector	CSA	1 Stage	1	3	14-Feb-17	
RUR-16-2017	Optimising interactive innovation project approaches and the delivery of EU policies to speed up innovation in rural areas	RIA	2 Stage	1	5	14-Feb-17	13-Sep-17

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<a href="#">Call for Bio-based innovation for sustainable goods and services - Supporting the development of a European Bioeconomy</a>							
<b>Securing sustainable biomass supply for bio-based goods and services</b>							
BB-2-2017	Towards a methodology for the collection of statistical data on bio-based industries and bio-based products	RIA	2 Stage	1	6	14-Feb-17	13-Sep-17
BB-3-2017	Adaptive tree breeding strategies and tools for forest production systems resilient to climate change and natural disturbances	RIA	2 Stage	1	6	14-Feb-17	13-Sep-17
BB-5-2017	Biobased industries regional dimension	CSA	1 Stage	1	3	14-Feb-17	
<a href="#">Calls under the BIO-BASED INDUSTRIES Public Private Partnership (BBI JU)</a>							
<b>BBI Coordination and Support Actions</b>							
				<b>(Indicative budget €3.5M)</b>			
BBI 2016.S1	A roadmap for the chemical industry to a bioeconomy	CSA	1 Stage	1	up to 1	08-Sep-16	
BBI 2016.S2	Bioeconomy related open access research infrastructure and assessing its capabilities for industry driven development projects	CSA	1 Stage	1	up to 1	08-Sep-16	
BBI 2016.S3	Open innovation Platform strengthening cooperation and joint development of bio	CSA	1 Stage	1	up to 1	08-Sep-16	
BBI 2016.S4	Clustering and networking for new value chains	CSA	1 Stage	1	up to 1	08-Sep-16	
<b>BBI Innovations Actions – “FLAGSHIP” Actions</b>							
				<b>(Indicative budget €65M)</b>			
BBI 2016.F1	FLAGSHIP Action: Valorisation of by-products or waste streams from the food processing industry into high added-value products for market applications	IA	1 Stage	1	30	08-Sep-16	
BBI 2016.F2	FLAGSHIP Action: From biomass feedstocks to innovative chemicals and materials	IA	1 Stage	1	35	08-Sep-16	
<b>BBI Research and Innovation Actions</b>							
				<b>(Indicative budget €50M)</b>			
BBI 2016.R1	Valorisation of the organic content of wastewater as feedstock, contributing to the renewable circular economy	RIA	1 Stage	1 proposal per topic to be funded	Proposals with a total eligible budget of €2 - 5M are expected for each topic - the contribution from the Commission will depend on consortium make up.	08-Sep-16	
BBI 2016.R2	Develop consolidated bioprocesses for direct fermentation into bio-compounds for chemicals and materials	RIA	1 Stage			08-Sep-16	
BBI 2016.R3	Improve control over microorganism growth in biocatalysis operations in order to reduce/avoid contamination without antibiotics	RIA	1 Stage			08-Sep-16	
BBI 2016.R4	Flexible biorefining technologies able to handle different feedstock, leading to new value chains or enlarging existing ones by utilising the same processing plant	RIA	1 Stage			08-Sep-16	
BBI 2016.R5	Advanced biomaterials for smart food packaging	RIA	1 Stage			08-Sep-16	
BBI 2016.R6	Bio-based alternatives to improve protection of human health and the environment	RIA	1 Stage			08-Sep-16	
BBI 2016.R7	Biopolymers with advanced functionalities for high performance applications	RIA	1 Stage			08-Sep-16	
BBI 2016.R8	Emerging technologies for conversion of Municipal Solid Waste and improving waste-to-chemicals value chains	RIA	1 Stage			08-Sep-16	
BBI 2016.R9	Exploiting algae and other aquatic biomass for the production of molecules for pharma, nutraceuticals, food additives and cosmetic applications	RIA	1 Stage			08-Sep-16	
BBI 2016.R10	industrial biotransformation for the production of biobased chemicals	RIA	1 Stage			08-Sep-16	
BBI 2016.R11	Recover and reuse enzymes to reduce costs of existing industrial processes	RIA	1 Stage			08-Sep-16	
BBI 2016.R12	Emerging technologies for separation and purification of fermentation products to obtain high grade bio-based monomers at industrial level	RIA	1 Stage			08-Sep-16	

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<b>BBI Innovations Actions – “DEMONSTRATION” Actions</b>				<b>(Indicative contribution from EC €70.2M)</b>			
BBI 2016.D1	Improve sustainability of value chains based on forest biomass and increase productivity and profitability on supply side by adapting forests to climate changes	IA	1 Stage	1 proposal per topic to be funded	Proposals with a total eligible budget of €15M are expected for each topic - the contribution from the Commission will depend on consortium make up.	08-Sep-16	
BBI 2016.D2	Improvement and adaptation of industrial crop varieties and novel sources of biomass to diversify biomass feedstock for biorefineries	IA	1 Stage			08-Sep-16	
BBI 2016.D3	Valorisation of lignin and other side-streams to increase efficiency of biorefineries and increase sustainability of the whole value chain	IA	1 Stage			08-Sep-16	
BBI 2016.D4	New and optimised biorefinery approaches enabling the creation of local value chains in underdeveloped or unexploited areas	IA	1 Stage			08-Sep-16	
BBI 2016.D5	Biobased polymers/plastic materials with new functionalities for medical, construction, automotive and textile industries	IA	1 Stage			08-Sep-16	
BBI 2016.D6	Valorisation of the organic content of Municipal Solid Waste and contributing to the renewable circular economy	IA	1 Stage			08-Sep-16	
BBI 2016.D7	Optimise technical production routes to bio-based chemicals in bio- or chemo-catalytic processes	IA	1 Stage			08-Sep-16	
BBI 2016.D8	New sources of proteins for animal feed from co-products to address the EU protein gap	IA	1 Stage			08-Sep-16	
BBI 2016.D9	Biomass production on unused land for conversion into added-value products while 'boosting rural and industrial development	IA	1 Stage			08-Sep-16	
<u><a href="#">Industrial Leadership - Calls under Nanotechnology and biotechnology</a></u>							
BIOTEC-05-2017	Microbial platforms for CO2-reuse processes in the low-carbon economy	RIA	2 Stage	1 to 3	5-7	27-Oct-16	04-May-17
BIOTEC-06-2017	Optimisation of biocatalysis and downstream processing for the sustainable production of high value-added platform chemicals	IA	2 Stage	1 to 3	5-7	27-Oct-16	04-May-17
BIOTEC-07-2017	New Plant Breeding Techniques (NPBT) in molecular farming: Multipurpose crops for industrial bioproducts	RIA	2 Stage	1 to 3	5-7	27-Oct-16	04-May-17
BIOTEC-08-2017	Support for enhancing and demonstrating the impact of KET Biotechnology projects	CSA	1 Stage	1	0.7-1	19-Jan-17	
<u><a href="#">SME instrument</a></u>							
SME-Inst	Various topics (agri-food, blue growth, energy, biotec) for disruptive, game changing innovations, already at TRL 5+. Please discuss with NCPs/NICPs	SMEI	Phase 1 Phase 2	multiple	0.5-2.5	4 cut-off deadlines per year	
<u><a href="#">Fast Track To Innovation - Pilot</a></u>							
FTIPILOT	Bottom up choice of topic for disruptive, game changing innovations, already at TRL 6+. Please discuss with NCPs/NICPs	IA	1 Stage	up to 33 (2016)	3	deadlines per year - 3 (2016)	

[Link to full Workprogramme printable document](#)

[Horizon 2020 - Pillar: Societal Challenges; Work Programme Year: H2020-2016-2017](#)

[Work Programme Part: Food security, sustainable agriculture and forestry, marine and maritime and inland water research and the bioeconomy \(183 pages, PDF\)](#)

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