

THE FRAMEWORK PROGRAMME FOR RESEARCH AND INNOVATION

HORIZON 2020



Food security, sustainable agriculture and forestry, marine and maritime and inland water research and the bioeconomy

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Topics included in the call

- **More resilient and resource efficient value chains**
- **Environment-smart and climate-smart primary production**
- **A competitive food industry**
- **Healthy and safe foods and diets for all**
- **Support to the Implementation of the EU-Africa Partnership on Food and Nutrition Security and Sustainable Agriculture**
- **Implementation of the EU-China FAB Flagship initiative**
- **New approaches towards policies and governance**
- **Innovation and skill development**
- **Securing sustainable biomass supply for bio-based goods and services**



More resilient and resource efficient value chains

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Latin America, Caribbean and Cote d'Ivoire Union Networks on Research and Innovation

Year	Topic Title	Instrument	Comments
2016/ 2017	SFS - 1. [2016]: Dealing with multiple and combined stresses: approaches to improve water and nutrient use efficiency in crop production	RIA	2 stages
	SFS - 2. [2016] Teaming up for good: Associations and mixtures as drivers of productivity and resilience in cropping systems	RIA	2 stages
	SFS - 3. [2016] Testing and breeding for sustainability and resilience in crops	RIA	2 stages
	SFS - 4. [2017] New partnerships and tools to enhance European capacities for in-situ conservation	CSA	
	SFS - 5. [2016]: Robotics Advances for Precision Farming	RIA	2 stages Budget from LEIT-ICT budget
	SFS - 6. [2016]: Weeding - Strategies, tools and technologies for sustainable weed management	RIA	2 stages Transdisciplinary research, including input from social sciences and humanities, are necessary to engage farmers in avoiding herbicides.



More resilient and resource efficient value chains

Year	Topic Title	Instrument	Comments
2016/ 2017	SFS - 7. [2016/2017]: Organic Breeding – Increasing the competitiveness of the organic breeding and farming sectors	RIA	2 stages
	SFS - 8. [2017]: Organic Inputs – Contentious inputs in organic farming	RIA	2 stages
	SFS - 9. [2016] Spot on critical outbreak of pests: The case of Xylella fastidiosa	RIA	2 stages International collaboration is encouraged with partners from Third Countries affected by the pest.
	SFS - 10. [2017] Research and approaches for newly emerging diseases in plants and terrestrial livestock	RIA	2 stages
	SFS - 11. [2016] Challenges for disease management: Perennial crops in the tropics and sub-tropics	RIA	2 stages International collaboration with Third Countries is essential to meet the requirements of the topic.



More resilient and resource efficient value chains

Year	Topic Title	Instrument	Comments
2016/ 2017	SFS - 12. [2016]: Support for international research on animal health	CSA	
	SFS - 13. [2016]: Validation of diagnostic tools for animal and crop health	IA	2 stages
	SFS - 14. [2016]: Understanding Host-Pathogen Interactions	IA	2 stages
	SFS - 15. [2017]: Breeding livestock for resilience and efficiency	RIA	2 stages
	SFS - 16. [2017]: Bee health and sustainable pollination	TBC	2 stages
	SFS - 17. [2017]: Innovations in plant protection	RIA	2 stages
	SFS - 18. [2016] Framework Partnership Agreement supporting Joint Actions towards Public-Public Partnerships in the Bioeconomy	Eranet	
	SFS - 19. [2016] ERANET COFUND: Public-Public Partnerships in the bioeconomy	Eranet	



More resilient and resource efficient value chains

Year	Topic Title	Instrument	Comments
2016/ 2017	SFS - 20. [2017]: Towards a science-based regionalisation of the Common Fisheries Policy	RIA	2 stages
	SFS - 21. [2016-2017]: Advancing basic biological knowledge and improving management tools for commercially important fish and other seafood species	RIA	2 stages
	SFS - 22. [2017]: Smart fisheries technologies for an efficient, compliant and environmentally friendly fishing sector	IA	
	SFS - 23. [2016]: Improving technical performance of the Mediterranean aquaculture	RIA	2 stages
	SFS - 24. [2016]: Reinforcing international cooperation on sustainable aquaculture production with countries from South-East Asia	CSA	
	SFS - 25. [2016] Standing Committee on Agricultural Research (SCAR) Support Action	CSA	



Environment-smart and climate-smart primary production

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Year	Topic Title	Instrument	Comments
2016/ 2017	SFS - 26. [2016]: Legumes - Transition paths to sustainable legume-based farming systems and agri-feed and food chains	RIA	2 stages
	SFS - 27. [2017]: Permanent grassland – farming systems and policies	RIA	2 stages
	SFS - 28. [2017]: Functional Biodiversity – Productivity gains through functional biodiversity – effective crop pollinators and pest predators interplay	RIA	2 stages
	SFS - 29. [2017]: Socio-Eco-Economics – Socio economics in ecological approaches	RIA	2 stages
	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 stages
	SFS - 31. [2016] – Farming for tomorrow: developing an enabling environment for resilient and sustainable agricultural systems	RIA	2 stages
	SFS - 32. [2017]: Promoting and supporting eco-intensification of aquaculture production systems: inland (including fresh water), coastal zone and offshore	RIA	2 stages



A competitive food industry

Year	Topic Title	Instrument	Comments
2016/ 2017	SFS - 33. [2016]: Understanding agro-food value chain and network dynamics	RIA	2 stages
	SFS - 34. [2017]: Innovative agro-food chains: unlocking the competitiveness and sustainability potential	RIA	2 stages
	SFS - 35. [2016] Innovative solutions for sustainable food packaging	IA	2 stages
	SFS - 36. [2017] Natural foods with clean labels	IA	



Healthy and safe foods and diets for all

Year	Topic Title	Instrument	Comments
2016/ 2017	SFS - 37. [2017]: Co-fund on "One Health" (zoonoses – emerging threats)	European Joint programme Cofund	
	SFS - 38. [2016] Encouraging healthy and sustainable dietary choices and healthy lifestyles at early ages and measuring their impacts on health	RIA	2 stages
	SFS - 39. [2017] The impact of consumer practices in biological and chemical food safety: risks and mitigation strategies	RIA	2 stages
	SFS - 40. [2016] Impulsivity and compulsivity and the link to nutrition, lifestyle and the socio-economic environment	RIA	2 stages
	SFS - 41. [2017] How to tackle the obesity epidemic?	RIA	2 stages
	SFS - 42. [2017] Sweeteners and sweetness enhancers	RIA	2 stages



Support to the Implementation of the EU-Africa Partnership on Food and Nutrition Security and Sustainable Agriculture

Year	Topic Title	Instrument	Comments
2016/ 2017	SFS - 43. [2016]: EU-Africa Research and Innovation partnership on food and nutrition security and sustainable agriculture	Eranet cofund	
	SFS - 44. [2016] Achieving food and nutrition security in Africa: the role of innovation	RIA	2 stages
	SFS - 45. [2017] Earth observation services for the monitoring of agricultural production in Africa	RIA	2 stages

Implementation of the EU-China FAB Flagship initiative

Year	Topic Title	Instrument	Comments
2016/ 2017	SFS - 46. [2017] A joint plant breeding programme to decrease dependency of the EU and China on protein imports	RIA	2 stages
	SFS - 47. [2017] Increase overall transparency of processed agro-food products	RIA	2 stages
	SFS - 48. [2016] Alternative production system to address anti-microbial usage, animal welfare and the impact on health	RIA	2 stages
	SFS - 49. [2016] Soil water resources management in the EU and China and its impact on agro-ecosystem functions	RIA	2 stages
	SFS - 50. [2017] Resource-efficient urban agriculture for multiple benefits – Contribution to the EU-China Urbanisation Partnership	IA	2 stages
	SFS - 51. [2016 or 2017]: Food systems and water resources for the development of inclusive, sustainable and healthy Euro-Mediterranean societies (PRIMA)	TBC	





Innovation for emerging Blue Growth activities

Year	Topic Title	Instrument	Comments
2016/ 2017	BG-1-[2016]: Large-scale algae biomass integrated biorefineries	IA	
	BG-2-[2016/2017]: High value-added specialised vessel concepts enabling more efficient servicing of emerging coastal and offshore activities	IA	
	BG-3-[2016]: Multi-use of the oceans marine space, offshore and near-shore: compatibility, regulations, environmental and legal issues	CSA	
	BG-4-[2017]: Multi-use of the oceans marine space, offshore and near-shore: Enabling technologies	IA	
	BG-5-[2017]: ERANET COFUND on marine technologies	Eranet co-fund	



Healthy oceans and seas for healthy people

Year	Topic Title	Instrument	Comments
2016/ 2017	BG-6-[2017]: Interaction between humans, oceans and seas: a strategic approach towards healthcare and wellbeing	CSA	
	BG-7-[2017]: Blue green innovation for clean coasts and seas	IA	
	BG-8-[2016]: Innovative sustainable solutions for improving the safety and dietary properties of seafood	IA	

Strengthening the European ocean observing, surveying and monitoring capability

Year	Topic Title	Instrument	Comments
2016/ 2017	BG- 9- [2016]: Unified integrated Arctic Observing System	RIA	2 stages
	BG-10-[2016]: Impact of Arctic changes on the weather and climate of the Northern Hemisphere	RIA	2 stages
	BG-11- [2017]: Climate impacts on Arctic ecosystems, resources, new economic activities	RIA	2 stages
	BG-12-[2016]: Towards an integrated Mediterranean Sea Observing System	RIA	2 stages
	BG-13- [2016]: Support to the BLUEMED Initiative: Coordination of marine and maritime research and innovation activities in the Mediterranean	CSA	



New approaches towards policies and governance

Year	Topic Title	Instrument	Comments
2016/ 2017	RUR - 1. [2016] - Consolidated policy framework and governance models for synergies in rural-urban linkages	RIA	2 stages
	RUR - 2. [2017] – Coastal-rural interactions: enhancing synergies between land and sea-based activities	RIA	2 stages
	RUR - 3. [2017]: Towards 2030: policies and decision tools for an integrated management of natural resources	RIA	2 stages
	RUR - 4. [2016]: WATER FARMS – Improving farming and supply of drinking water	RIA	2 stages
	RUR - 5. [2017] Novel public policies, business models and mechanisms for sustainable supply and payment of forest ecosystem services	IA	



New value chains and business models

Year	Topic Title	Instrument	Comments
2016/ 2017	RUR - 6. [2016] Crop diversification systems for the delivery of food, feed, industrial products and ecosystems services: from farm benefits to value-chain organisation	RIA	2 stages
	RUR - 7. [2016] Resource-efficient and profitable industrial crops on marginal lands	RIA	2 stages
	RUR - 8. [2016] Demonstration of integrated logistics centres for food and non-food applications	IA	
	RUR - 9. [2017] – Business models for modern rural economies	RIA	2 stages

Year	Topic Title	Instrument	Comments
2016/ 2017	RUR - 10. [2016-2017] – Thematic Networks compiling knowledge ready for practice	CSA	
	RUR - 11. [2016]: On farm demonstrations: deepening farmer-to-farmer learning mechanisms	CSA	
	RUR - 12. [2017]: Networking European farms to boost thematic knowledge exchanges and close the innovation gap	CSA	
	RUR - 13. [2017] – Building a future science and education system fit to deliver to practice	RIA	2 stages
	RUR - 14. [2016]: Advisor's role in functioning of AKIS and advisory policies boosting innovation in sustainable agriculture	RIA	2 stages
	RUR - 15. [2016]: The benefits of working with others – fostering social capital in the farming sector	CSA	
	RUR - 16. [2017]: Optimising interactive innovation project approaches and the delivery of EU policies to speed up innovation in rural areas	RIA	2 stages



Securing sustainable biomass supply for bio-based goods and services

Year	Topic Title	Instrument	Comments
2016/ 2017	BE - 1. [2016] Sustainability schemes for the bio-based economy	RIA	2 stages
	BE – 2. [2017] Towards a methodology for the collection of statistical data on bio-based industries and bio-based products	RIA	2 stages
	BE - 3. [2017] Adaptive tree breeding strategies and tools for forest production systems resilient to climate change and natural disturbances	RIA	2 stages
	BE - 4. [2016] Bio-based products: Mobilisation and mutual learning action plan	CSA	
	BE - 5. [2017] Bio-based industries regional dimension	CSA	
	BE - 6. [2016] Life-cycle assessment of wood value chains and applications for the bioeconomy	RIA	2 stages



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Many thanks

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