



Horizon 2020 Societal Challenges

- 1. Health, demographic change and well-being
- 2. Food security, sustainable agriculture and forestry, marine and maritime and inland water research, and the bioeconomy
- 3. Secure, clean and efficient energy
- 4. Smart, green and integrated transport
- 5. Climate action, environment, resource efficiency and raw materials
- 6. Europe in a changing world inclusive, innovative and reflective societies
- 7. Secure societies protecting freedom and security of Europe and its citizens







Considerations

- Solutions should duly integrate Socio-economic approaches. Sciences and Humanities are involved in cross-cutting way.
- Some activities are open to third countries and strong efforts are made to encourage them to seize this opportunity. Bilateral and multilateral proposals are encouraged (involving stakeholders from economy and the public sector).
- Several topics have been specifically flagged for international cooperation





Background

Aim

Making the best of our biological resources in a sustainable way

Objective

Contribute to securing sufficient supplies of safe, healthy and high quality food and other bio-based products, by developing productive, sustainable and resource-efficient primary production systems, fostering related ecosystem services and the recovery of biological diversity, alongside competitive and low carbon supply chains

Deadlines between February & June 2014







The subtopics

1. Sustainable Food Security

- Sustainable Food Production systems
- Safe food and healthy diets and sustainable consumption
- Global drivers of food security

H2020-SFS-2014, €138 million, 15 topics







The subtopics

2. Blue Growth: Unlocking the potential of Seas and Oceans

- Sustainably exploiting the diversity of marine life
- New offshore challenges
- Ocean observation technologies/systems
- Horizontal apects, socio-economic sciences, innovation, engagement with society and ocean governance across the blue growth focus areas

H2020-BG-2014, €59 million, 12 topics







The subtopics

3. Innovative, Sustainable and Inclusive Bioeconomy

- Sustainable Agriculture and Forestry
- Sustainable and competitive bio-based industries
- Cross-cutting actions covering all activities

H2020-ISIB-2014, €44.5 million, 10 topics







Sustainable food production systems

- Sustainable terrestrial livestock production
 - Genetics and nutrition and alternative feed sources for terrestrial livestock production
 - Tackling losses from terrestrial animal diseases

Note: China & other third countries

- Sustainable crop production
 - External nutrient inputs
- Practical solutions for native and alien pests affecting plants
 - Native and alien pests in agriculture and forestry
 - EU-China cooperation on Integrated Pest Management (IPM) in agriculture







Sustainable food production systems

Soil quality and function

Note: China & other third countries

- Sustainable intensification pathways of agro-food systems in Africa
- Genetic resources and agricultural diversity for food security, productivity and resilience
 - Traditional resources for agricultural diversity and the food chain
- Resource-efficient eco-innovative food production and processing

Note: SME focus

Towards a gradual elimination of discards in European fisheries







Sustainable food production systems

- 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
- Implementation of an Ecosystem-based approach for European aquaculture
 - Optimizing space availability for European Aquaculture







Safe food and healthy diets and sustainable consumption

- Assessing the health risks of combined human exposure to multiple foodrelated toxic substances
- Authentication of food products
 - Authentication of olive oil

Note: third countries

Proteins of the future

Note: third countries & SME focus

Innovative solutions for sustainable novel food processing

Note: SME focus







Global drivers of food security

- Sustainable food and nutrition security through evidence based EU agro-food policies
 - Strengthening the analytical capacity on food and nutrition security
 - Understanding relevant issues impacting the agro-food sector

Note: Africa & Asia







Blue Growth: Unlocking the potential of Seas and Oceans

Sustainably exploiting the diversity of marine life

- Novel marine derived biomolecules and industrial biomaterials
- Enhancing the industrial exploitation potential of marine-derived enzymes

New offshore challenges

- Preparing for the future innovative offshore economy
- Delivering the sub-sea technologies for new services at sea

Ocean observation technologies/systems

- Developing in-situ Atlantic Ocean Observations for a better management and sustainable exploitation of the maritime resources
- Acoustic and imaging technologies







Blue Growth: Unlocking the potential of Seas and Oceans

Horizontal aspects, socio-economic sciences, innovation, engagement with society and ocean governance across the blue growth focus area

- Consolidating the economic sustainability and competitiveness of European fisheries and aquaculture sectors to reap the potential of seafood markets
- Monitoring, dissemination and uptake of marine and maritime research
- Supporting SMEs efforts for the development deployment and market replication of innovative solutions for blue growth
- Ocean literacy Engaging with society Social Innovation
- Supporting international cooperation initiatives: Atlantic Ocean Cooperation Research Alliance
- European polar research cooperation







Innovative, Sustainable and Inclusive Bioeconomy

Sustainable Agriculture and Forestry

- Provision of public goods by EU agriculture and forestry: Putting the concept into practice
- Closing the research and innovation divide: the crucial role of innovation support services and knowledge exchange
- Improved data and management models for sustainable forestry
 - Improved forest data

Sustainable and competitive bio-based industries

- Renewable oil crops as a source of bio-based products
- Public procurement networks on innovative bio-based products







Innovative, Sustainable and Inclusive Bioeconomy

Cross-cutting actions covering all activities

- Towards an innovative and responsible bioeconomy
 - Engaging society, reaching end users and linking with policy makers for a participative governance of the bioeconomy
 - Bridging research and innovation efforts for a sustainable bioeconomy
- Supporting National Contact Points for Societal Challenge 2 and the Key Enabling Technology (KET) 'Biotechnology'

Note: third countries

Networking of Bioeconomy relevant ERA-NETs







Innovative, Sustainable and Inclusive Bioeconomy

Cross-cutting actions covering all activities

- Coordination action in support of the implementation by participating States of a Joint Programming Initiative on Agriculture, Food Security and Climate Change
- Public-Public Partnerships in the bioeconomy
 - Sustainable and resilient agriculture for food and non-food systems







Thank you





