

HORIZON 2020

Work Programme 2016-2017 Societal Challenge 2

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



- SC2 (and the BG call)

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WP 2016/17 Societal Challenge 2 at a glance

4 challenges

Increase by
60% our
global
agricultural
production to
feed 9 billion
people by
2050

Unlock the potential of seas which cover 70% of the earth's surface & host 50% of known species

Foster
innovation in
rural areas
which account
55% of jobs
in EU & 46% of
the Gross
Added Value

Boost biobased market to create over 3% growth / year in this sector & 90.000 new jobs

4 objectives

Ensure global food nutrition & security by more efficient primary production and related industry

Demonstrate
the innovative
potential of
the oceans by
bringing
technology to
market

Develop rural and coastal areas through new territorial approaches and business models Reindustrialise
EU through
new bio-based
value-chains,
securing
sustainable
biomass

4 calls

Sustainable food security €431,5M

Blue Growth €129M Rural renaissance €128M

Bio-based innovation for sustainable goods and services €27M

4 deliverables

Resourceefficient value chains, climate smart primary production, healthy/safe food & diets Innovation for emerging Blue growth activities, healthy oceans for healthy people New governance, new value chains and business models, rural innovation and skills

Sustainable biomass supply, biobased markets of the future

SC2 - WP2016/17



INNOVATION, DEMONSTRATION and INVESTMENT

R&I closer to markets:

POLICIES

Modernisation of rural economies, Integrated management of natural resources, Regionalisation of fisheries policies, Forest ecosystem services...

ERA and ALIGNMENT

aligning Public and Private research around key objectives:

- investements in Co-fund
- Complementarity with BBI JU

FRAMEWORK CONDITIONS

for new bio-based markets

(widening regional up-take, sustainability schemes, demand side measures...)

- for rural and coastal development

(skills, new value chains and business models, logistics, on farm demonstrators...)

INTERNATIONAL CO-OPERATION

tackling key challenges with global partners:

Africa, The Arctic, Mediterranean Countries, China, Asia

Responsible R&I, SSH

Stakeholders engagement, reinforced multi-actor approach, mobilisation and mutual learning on bio-based products, interactive Agriculture Knowledge and Innovation Systems, education...



The challenges and the Calls





Societal Challenge 2 Calls

Sustainable food security

Blue Growth

Rural Renaissance Bio-based innovation for sustainable goods and services



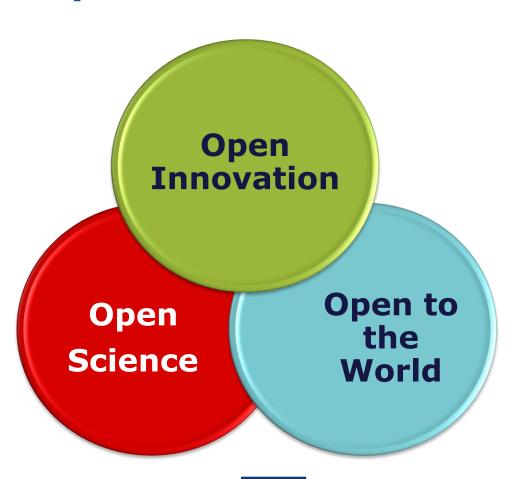








The Work Programme addresses three priorities of Commissioner





Open Innovation

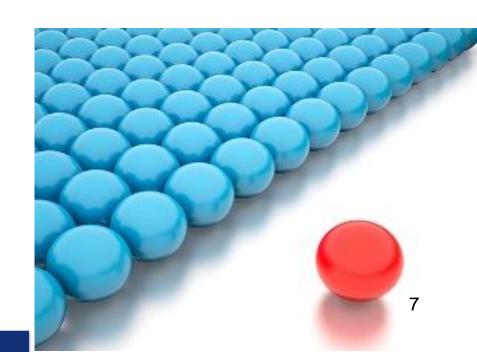
 Boosting private investment in research and innovation by maximising the use of EFSI and InnovFin

 Bringing research and innovation closer to markets by dedicating 1/3 of the budget dedicated to SMEs,

demonstration and financial

instruments

Widening regional uptake





Open Science

Open access to data

Responsible Research and Innovation in particular through engagement and gender

equality





Open to the world

• Tackling key challenges with global partners: Africa,

South-East Asia,

China, the Arctic

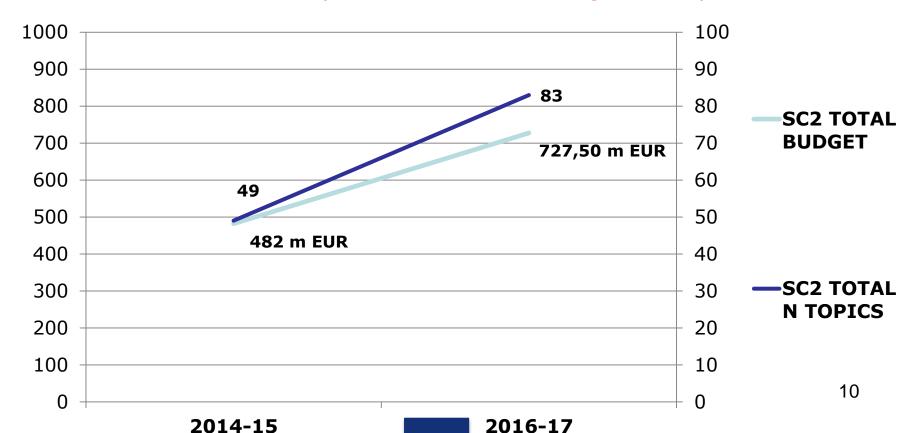




SC2 Topics & Budget change: 2014-15 to 2016-17

Whole Societal Challenge 2: four Calls, 83 topics, 727.5M €

Proportional increase in budget and topics vs 2014-15





SC2 Calls 2016 - DATES

Publication	Submission		<u>Deadlines</u>	Information to applicants	Grant Agreements
14 OCT 2016	two-stage submission (RIA with some exceptions)	1st stage	17 Feb 2016	May 2016	-
		2nd stage	13 Sept 2016	Nov 2016	May 2017
	single stage submission (IA, CSA, ERA Net)	Single stage	17 Feb 2016	May 2016	October 2016



Work Programme pre-publication

Draft versions of the Horizon 2020 work programmes for 2016-2017 are made public just before the adoption process.

This version is not yet endorsed by the Commission and it does not in any way prejudge the final decision of the Commission.

The adoption and the publication of the work programme by the Commission are expected in mid-October 2015. Only the adopted work programme will have legal value.

https://ec.europa.eu/programmes/horizon2020/e n/draft-work-programmes-2016-17



CALL

Blue Growth (BG)

Blue Growth



Scope

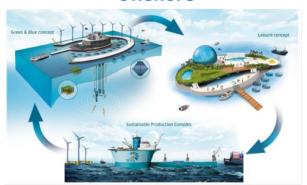








Offshore



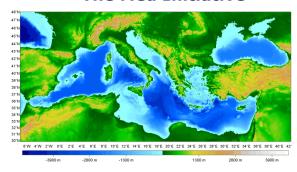


Cleaning the Sea



The Med Initiative









Blue Growth <u>CALL</u> € 129 million from different parts of Horizon 2020 to:

Demonstrate the innovative potential of the oceans by bringing technologies to the market

Ensure a healthy ocean for healthy people

Seize the opportunities of integrated sea basin Strategies (the Mediterranean and the Arctic)





Blue Growth - AREAS





Scope of the topics

- Broad and non-prescriptive
- Cross-disciplinary and cross-sectorial
- Innovation-oriented

Expected impacts

- EU added value
- Scientific excellence
- Technological innovation
- Economic advantage
- Societal benefit



Blue Growth TOPICS summary

Boosting innovation for emerging Blue Growth activities

- Large-scale integrated algae biorefineries
- High value-added specialised vessel concepts
- Multi-use of the oceans marine space, offshore and near-shore:
 - Legal and environmental issues
 - Enabling technologies
- ERANET cofund on Marine technologies

Linking healthy oceans and seas for healthy people

- Interaction between people, oceans and seas:
- Blue green innovation for clean coasts and seas
- Innovative sustainable solutions for improving the safety and dietary properties of seafood

The Arctic Dimension

- An integrated Arctic observing system
- Impact of Arctic changes on the weather and climate of the Northern Hemisphere
- Climate impacts on Arctic permafrost and its socio-economic impact, with a focus on coastal areas

3 topics 40 M€

Valorising the Mediterranean Sea basin

- Towards an integrated
 Mediterranean Sea Observing System
- Support to the BLUEMED Initiative: Coordination of marine and maritime research and innovation activities in the Mediterranean

5 topics 57 M€ 3 topics 21 M€

2 topics 11 M€



Boosting
Innovation for
emerging Blue
Growth activities



- Large-scale algae biomass integrated bio-refineries
- High value-added specialised vessel concepts enabling more efficient servicing of emerging coastal and offshore activities

Total: 57M€



Linking healthy oceans and seas for healthy people

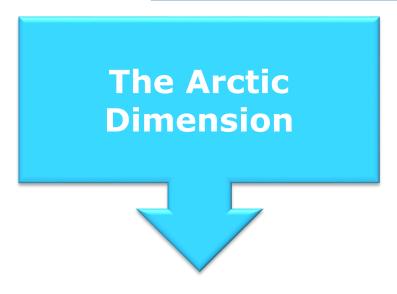


Three topics:

- Interaction between people, oceans and seas: a strategic approach towards healthcare and well-being
- Blue green innovation for clean coasts and seas
- Innovative sustainable solutions for improving the safety and dietary properties of seafood

Total: 21M€





Three topics. Examples:

- An integrated Arctic observation system
- Impact of Arctic changes on the weather and climate of the Northern Hemisphere
- Climate impacts on Arctic permafrost and its socioeconomic impact, with a focus on coastal areas

Total: 40M€







Two topics:

- Towards an integrated Mediterranean Sea Observing System
- Support to the BLUEMED Initiative: Coordination of marine and maritime research and innovation activities in the Mediterranean

Total: 11M€





Marine & Maritime Research in other parts of H2020

•SOCIETAL CHALLENGES:

- SC3 (Energy): 2 topics on ocean energy under Competitive Low Carbon Energy call & mentions across other 8 others.
- SC4 (Transport): 2 topics on waterborne transport under Mobility for Growth & mentions in 6 others.
- SC5 (Climate): 4 topics under Climate Services
 encompassing oceanic measurements, ocean climate, coastal
 areas, and plastic-free seas and oceans.

LEIT- NMBP

Two topics on materials for buildings and infrastructure including offshore and on biotechnology opportunities for industry.

and other relevant parts of H2020

6 TOPICS - 41M€

Fisheries and Aquaculture



SFS 20	Towards a science-based regionalisation of the Common Fisheries Policy (RIA)
SFS 21	Advancing basic biological knowledge and improving management tools for commercially important fish and other seafood species (RIA)
SFS 22	Smart fisheries technologies for an efficient, compliant and environmentally friendly fishing sector (IA)
SFS 23	Improving the technical performance of Mediterranean aquaculture (RIA)
SFS 24	Reinforcing international cooperation on sustainable aquaculture production with countries from South-East Asia (CSA)
SFS 32	Promoting and supporting eco-intensification of aquaculture production systems: inland (including fresh water), coastal zone and offshore (RIA)