

Horizon 2020 and Blue Growth Opportunities

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International Knowledge and Innovation, BIS

June 2015

Horizon 2020 - 3 Pillar Structure

1. Excellent Science TRL 1-3 (24.4€Bn)

European
Research
Council (ERC)

Future & Emerging
Technologies (FET)

Marie
Skłodowska-Curie
actions

Research
Infrastructures

2. Industrial Leadership TRL 4-7 (€17Bn)

Leadership in
Enabling and
Industrial
Technologies

Access to Risk
Finance

Innovation in SMEs

3. Societal (€29.7Bn)

Health, demographic change
and wellbeing

Food security, sustainable
agriculture, forestry, marine,
maritime, inland water and
bio-economy

Secure, clean and
efficient energy

Smart, green and
integrated transport

Climate action, environment,
resource efficiency and
raw materials

Inclusive, innovative and
reflective societies

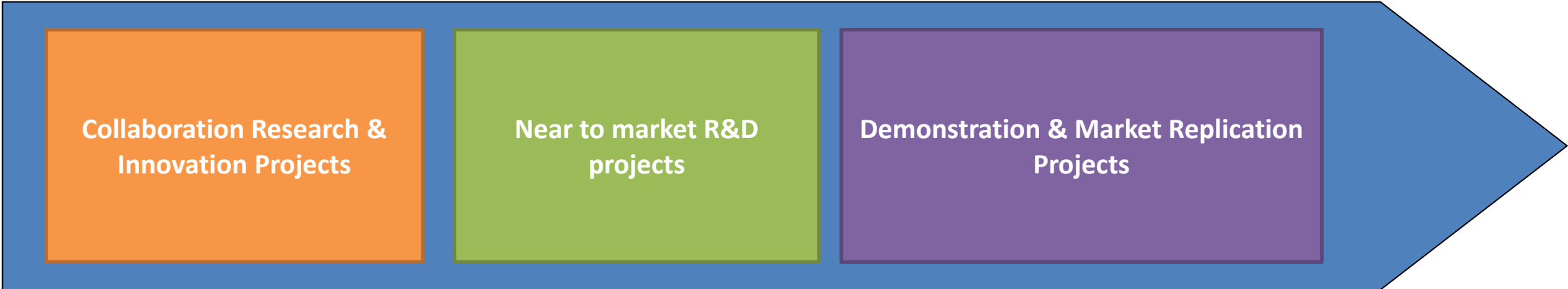
Secure societies – protecting
freedom and security of
Europe and its citizens

Spreading Excellence and
Widening Participation

Science with and
for Society

EIT

JRC



R&D driven projects



Market opportunity driven projects



SME Funding Opportunities under Horizon 2020 (and associated programmes**)

Societal Challenges & Industrial Leadership

Eurostars **

SME Instrument

Fast Track to Innovation

Research-Driven Projects

Innovation-Led Projects

Near to market R&D Projects

Demonstration market replication

Demonstration market replication

100% Funding

70% Funding

60% Funding

70% Funding

70% Funding

Consortia – min 3 partners, 3 countries

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1 additional non-UK partner

Single SME (also groups)

5 from 5 countries, Min. 3 from 3

Value Varies

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Up to €360K

Phase 1: €50k
Phase 2: €0.5 - 2.5m

Maximum 3m

Prescriptive & Thematic Calls

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Bottom-Up Projects – no thematic focus

Thematic Calls, but flexible projects

Bottom-Up Projects – no thematic focus

Horizon 2020 and Blue Growth Opportunities

Ian Holmes

H2020 National Contact Point

Food Security, Sustainable Agriculture and Forestry, Blue Growth and the Bioeconomy

June 2015

UK National Contact Points for Horizon 2020

- Provided by Innovate UK and other Agencies
- Dedicated National Contact Point across the H2020 “Pillars”
- Support for UK organisations, with a focus on industry
- No wrong door policy working with;



<https://connect.innovateuk.org/>

<http://een.ec.europa.eu/>

Blue Growth - Demonstrating an ocean of opportunities

- Part of Societal Challenge Two Topic (*Food security, sustainable agriculture and forestry, marine and maritime and inland water research and the Bioeconomy*)
- Targeted innovation in our seas and oceans can play a key role to tackle global challenges such as the scarcity and vulnerability of strategic resources (i.e. for food, energy, etc.) while factoring in the climate change risks.
- The potential to provide more jobs, growth, renewable energy sources as well as climate-smart solutions.
- However, a risky environment, insufficient knowledge, data or data access, as well as uncertain financial and legal frameworks are critical barriers to overcome.

Three interlinked themes

- Innovation for emerging Blue Growth activities:
 - Test, demonstrate, scale-up and bring to the market existing or new marine and maritime technologies, support innovative products and the development of new services.
- Healthy oceans and seas for healthy people:
 - Explore the interactions between the oceans and human health.
- Strengthening the European ocean observing, surveying and monitoring capability:
 - Create an inter-operational ocean and sea basin observation system, and develop/deploy technologies necessary to produce of a high-resolution map of EU Sea Basins.

Innovation for emerging Blue Growth activities

- algae biomass integrated biorefineries
- Specialised vessel concepts for more efficient servicing of maritime activities
- Multi-use of the oceans marine space, offshore and near-shore: compatibility, regulations, environmental and legal issues
- Multi-use of the oceans marine space, offshore and near-shore: Enabling technologies

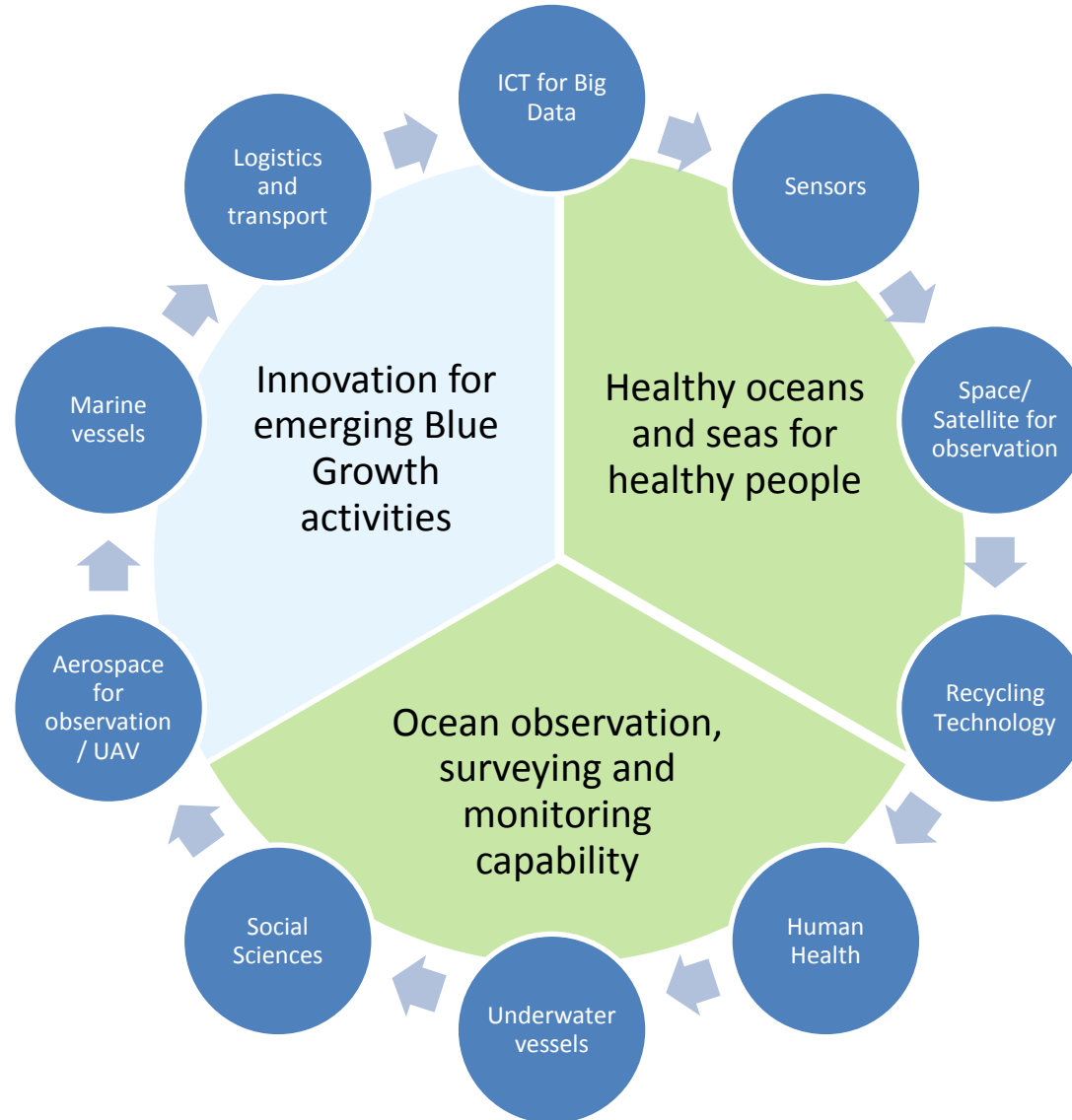
Healthy oceans and seas for healthy people

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

Ocean observation, surveying and monitoring capability

- Unified integrated Arctic Observing System
- Impact of Arctic changes on the weather and climate of the Northern Hemisphere
- Climate impacts on Arctic ecosystems, resources, new economic activities
- Climate impacts on Arctic permafrost, with a focus on coastal areas, and its socio-economic impact
- Integrated Mediterranean Sea Observing System

Blue Growth - An ocean of opportunities



Potential* topics in SC4 - Smart Green and Integrated Transport

- Innovations for energy efficiency and emission control in waterborne transport
- Development, production and use of high performance and lightweight materials for vessels and equipment
- New and improved transport concepts in waterborne transport
- Complex and value-added specialised vessels
- The Port of the Future

Waterborne and other initiatives

National Contact Point for Transport

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- attends the H2020 Transport Programme Committee as a National Expert along with from BIS and DfT.
- UK representative on the Waterborne European Technology Platform (ETP) <http://www.waterborne-tp.org/>
- Waterborne ETP is preparing a potential Public Private Partnership called Vessels for the Future

www.innovateuk.org

Horizon 2020 UK

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