

H2020 support for Blue Growth and Transport for Maritime Sector

Ian Holmes

Innovate UK

What is Horizon 2020?

- EU Research and Innovation programme with nearly €80 billion of funding available (2014 to 2020)
- Excellent science, industrial leadership and tackling societal challenges
- The goal is to ensure Europe
 - produces world-class science,
 - removes barriers to innovation,
 - makes it easier for public and private sectors to work together in delivering innovation.

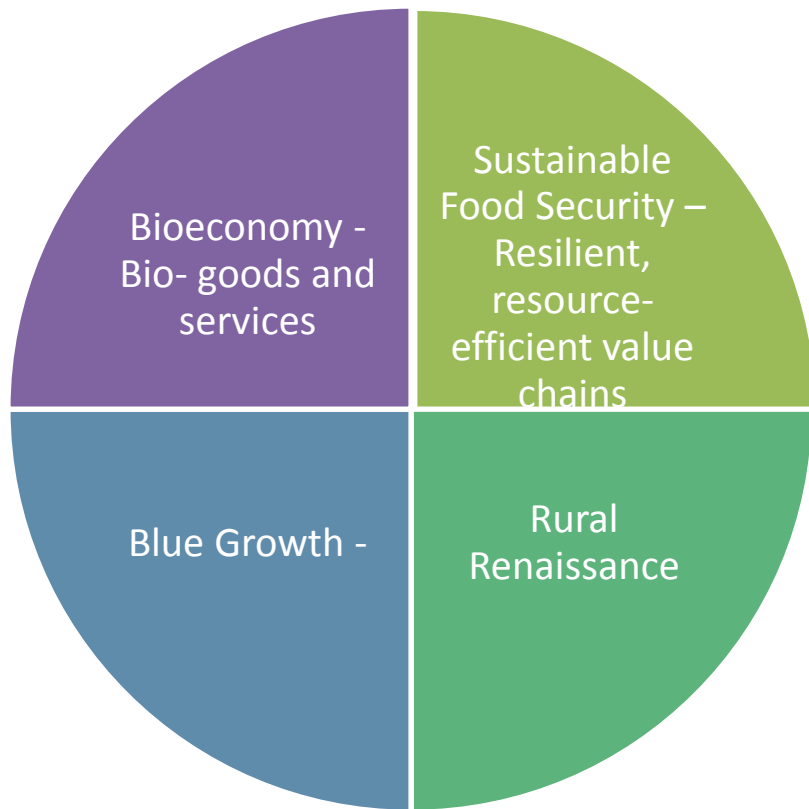
The Three Pillars of Horizon 2020

<i>Excellent Science</i>	<i>Industrial Leadership</i>	<i>Societal Challenges</i>
<ul style="list-style-type: none">• <i>European Research Council</i>• <i>Future and Emerging Technologies</i>• <i>Marie Curie actions</i>• <i>Research Infrastructures</i>	<ul style="list-style-type: none">• <i>Leadership in Enabling and Industrial Technologies</i>• <i>Access to risk finance</i>• <i>Innovation in SMEs</i>	<ul style="list-style-type: none">• <i>Health, demographic change and wellbeing</i>• <i>Food security, sustainable agriculture, marine and maritime research & the bio-economy</i>• <i>Secure, clean and efficient energy</i>• <i>Smart, green and integrated transport</i>• <i>Climate action, resource efficiency and raw materials</i>• <i>Inclusive societies</i>• <i>Secure societies</i>

What is a National Contact Point (NCP)?

- Provide accessible, free and confidential help for all types of organisations interested in H2020.
- Give impartial advice regarding H2020 funding, tailored to each individual business and organisation.
- Many NCPs (but not all) are also National Experts with a seat at the Programme Committee to advise the National Delegate

SC2: Food Security, Sustainable Agriculture & Forestry, Marine & Maritime and Inland Water Research and the Bioeconomy



- **Feed 9 billion people by 2050** by improving farming and food systems' capacity to sustainably supply sufficient, healthy food
- **Unlock the potential of seas and oceans** which cover 70% of the Earth's surface and host 50% of known species
- **Raise the sustainable growth potential of rural areas** and their ability to cope with demographic, climatic and economic change
- **Boost bio-based markets**

Four core objectives

- Ensure food and nutrition security by fostering resilient and resource efficient primary production and industry as well as sustainable and healthy consumption
- **Demonstrate the innovative potential of the Oceans by bringing technology to market**
- **Foster innovation and business opportunities for rural and coastal areas through new territorial approaches and business models**
- Re-industrialise Europe through new bio-based value-chains, securing sustainable biomass

Blue Growth - Demonstrating an ocean of opportunities



Innovation for emerging Blue Growth activities

BG-01-2016: Algae biomass integrated biorefineries (IA)

BG-02-2016/17: **Specialised vessel concepts for more efficient servicing of maritime activities** (2 calls RIA)

BG-03-2016: Multi-use of the oceans marine space, offshore and near-shore (CSA)

BG-04-2017: **Multi-use of the oceans marine space, offshore and near-shore (IA)**



Healthy oceans and seas for healthy people

BG-06-2017: Interaction between humans, oceans and seas: a strategic approach towards healthcare and wellbeing. (CSA)



BG-07-2017: Blue green innovation for clean coasts and seas (IA)



BG-08-2017: Innovative sustainable solutions for improving the safety and dietary properties of seafood (IA)



RUR-02-2017: Coastal-rural interactions: Enhancing synergies between land and sea-based activities (RIA)

SC4 - Mobility for Growth within Smart, green and integrated transport

- Aviation
- Waterborne
- Safety
- Urban Mobility
- Logistics
- Intelligent Transport Systems
- Infrastructure
- Socio-Economic and Behavioural Research and Forward Looking Activities for Policy Making



Topics - Waterborne

MG-2.2-2016	Development, production and use of high performance and lightweight materials for vessels and equipment (IA)	€38m
MG-2.3-2016	New and improved transport concepts in waterborne transport (RIA)	
MG-2.1-2017	Innovations for energy efficiency and emission control in waterborne transport (IA)	€40m
MG-2.4-2017	Complex and value-added specialised vessels (IA)	

Topics - Safety

MG-3.1-2016	Addressing aviation in safety challenges (RIA)	€15m
MG-3.2-2017	Protection of all road users in crashes (RIA)	€14m
MG-3.3-2016	Safer waterborne transport and maritime operations (RIA)	€22m
MG-3.5-2016	Behavioural aspects for safer transport	
MG-3.4-2016	Transport infrastructure innovation to increase the transport systems safety at modal and intermodal level (including nodes and interchanges) (RIA)	€12m
MG-3.6-2016	Euro-African initiative on road safety and traffic management (CSA)	€3m

Topics - Infrastructure

MG-7.1-2017	Resilience to extreme (natural and man-made) events (RIA)	€ 37m
MG-7.2-2017	Optimisation of transport infrastructure including terminals (RIA)	
MG-7.3-2016	The Port of the future (RIA) CSA →	€1m

Calls and topics in the context of H2020

- Calls are **challenge-based**, and open to innovative proposals
- Calls are less prescriptive –
 - They don't outline the expected solutions, or the approach to be taken to solve it
- Emphasis on **impact**, each topic has an impact statement
 - You must explain how they will address these impacts
- Bring together **different disciplines, sectors and actors** to tackle specific challenges
- “Horizontal” issues such as sustainability, climate change, gender are intrinsic to all projects

Deadlines – 2016 calls

Transport

Jan 20th 2016 for Stage 1

Jan 26th 2016 for Single Stage

Blue Growth

Feb 17th 2016 Stage 1 and Single stage

Horizon 2020 UK website

www.h2020uk.org

National Contact Point for SC2 – Ian Holmes

ian.holmes@innovateuk.gov.uk

 @UKH2020_Sustain

National Contact Point for Transport – Louise Mothersole

Louise.Mothersole@innovateuk.gov.uk

 @NCP_Transport