



# Horizon 2020 Work Programme for Research & Innovation 2018-2020

## Blue Growth

#InvestEUresearch



Research and  
Innovation

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European Commission DG RTD  
Bioeconomy – Marine Resources

# RATIONALE – legal base

2.3

**Unlocking the potential of aquatic living resources**

2.3.1

**Fisheries**

2.3.2

**Aquaculture**

2.3.3

**Blue Innovation & Biotechnology**

2.5

**Cross-cutting marine and maritime research**

2.5.2

**Marine Resources**

2.5.1

**Climate**

2.5.3

**Technologies**



# POLICY DRIVE

## EU

**COMMON FISHERIES POLICY, INTEGRATED MARITIME POLICY**

BLUE GROWTH AGENDA & SEA BASINS STRATEGIES

MARINE STRATEGY FRAMEWORK DIRECTIVE

MARITIME SPATIAL PLANNING

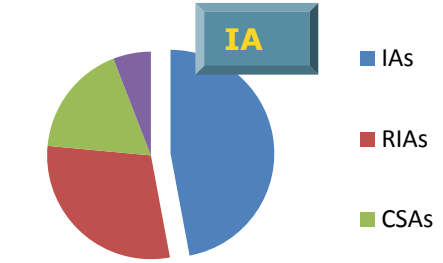
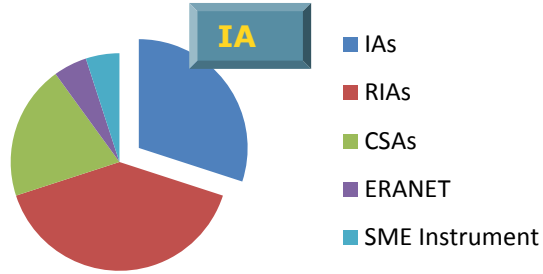
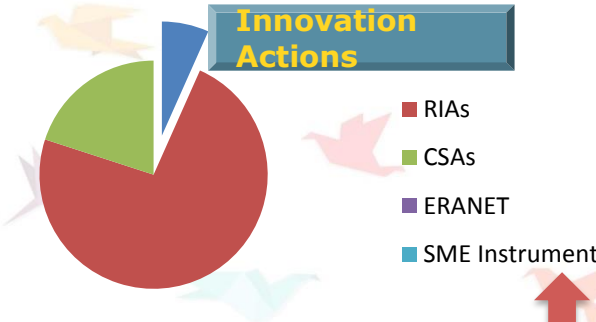
BLUE ENERGY, BLUE TOURISM, BLUE INNOVATION,

INTERNATIONAL OCEAN GOVERNANCE ...

## INTERNATIONAL



# Blue Growth calls Evolution



**↑ INNOVATION**

# Blue Growth

€ 239 million to sustainably harvest the potential of aquatic and marine resources, while protecting biodiversity and enhancing climate resilience



**Climate and Oceans**



**Food and Oceans**



**Marine value chains**



**Land and Sea**



**International cooperation**

# Blue Growth topics (2018-2019)

## Climate-Ocean

- Sustainable harvesting of marine biological resources
- Coordination of marine and maritime research and innovation in the Black Sea



## Food and Oceans

- Sustainable European aquaculture 4.0: breeding and feeding



## Marine value chains

- Multi-use of the marine space, offshore and near-shore: pilot demonstrators



## Land-Sea Connection

- Sustainable solutions for bio-based plastics on land and sea



## International cooperation

- All Atlantic Ocean Research Alliance
- The Future of Seas and Oceans
- Towards a Baltic and North Sea research and innovation programme

• Blue Bioeconomy Public-Public-Partnership

9 topics, 166.5 M€



## International co-operation

- **All Atlantic Ocean Research Alliance Flagship (BG-08-2018-19)**

**64 M€ in 2018-19**

- Co-ordinating Atlantic R&I **CSA - 4 M€**
- Ecosystems assessment **RIA - 9 m€ (x 3-4)**
- Aquaculture value chains **RIA - 8 m€ (x 3-4)**



- **The Future of Seas and Oceans (BG-07-2019-20)**

**18 M€ in 2019**

- Blue Cloud **IA, 6 M €**
- Observations and forecasting **IA, 12 M €**
- Technologies **(tbc 2020)**



## Co-ordination and Support Actions , ERA-NET

- **Towards a Baltic and North Sea R&I programme**  
(BG-01-2018) **CSA 2.5 M€**
- **Co-ordination of marine and maritime R&I in the Black Sea**  
(LC-BG-09-2019) **CSA, 2 M€**
- **Co-ordination of marine and maritime R&I activities in the Atlantic Ocean** (BG-08-2018 [A]) **CSA, 4 M€**
- **Blue Bioeconomy Public-Public-Partnership**  
(BG-02-2018) **ERA-NET-Cofund, 8 m€**





# Blue Growth CONTRIBUTION TO FOCUS AREAS



## Low-Carbon

- Sustainable harvesting of marine resources (12M€)
- Co-ordination of marine R&I in the Black Sea (2M€)



## Digitisation

- Sustainable European Aquaculture 4.0 (24M€)

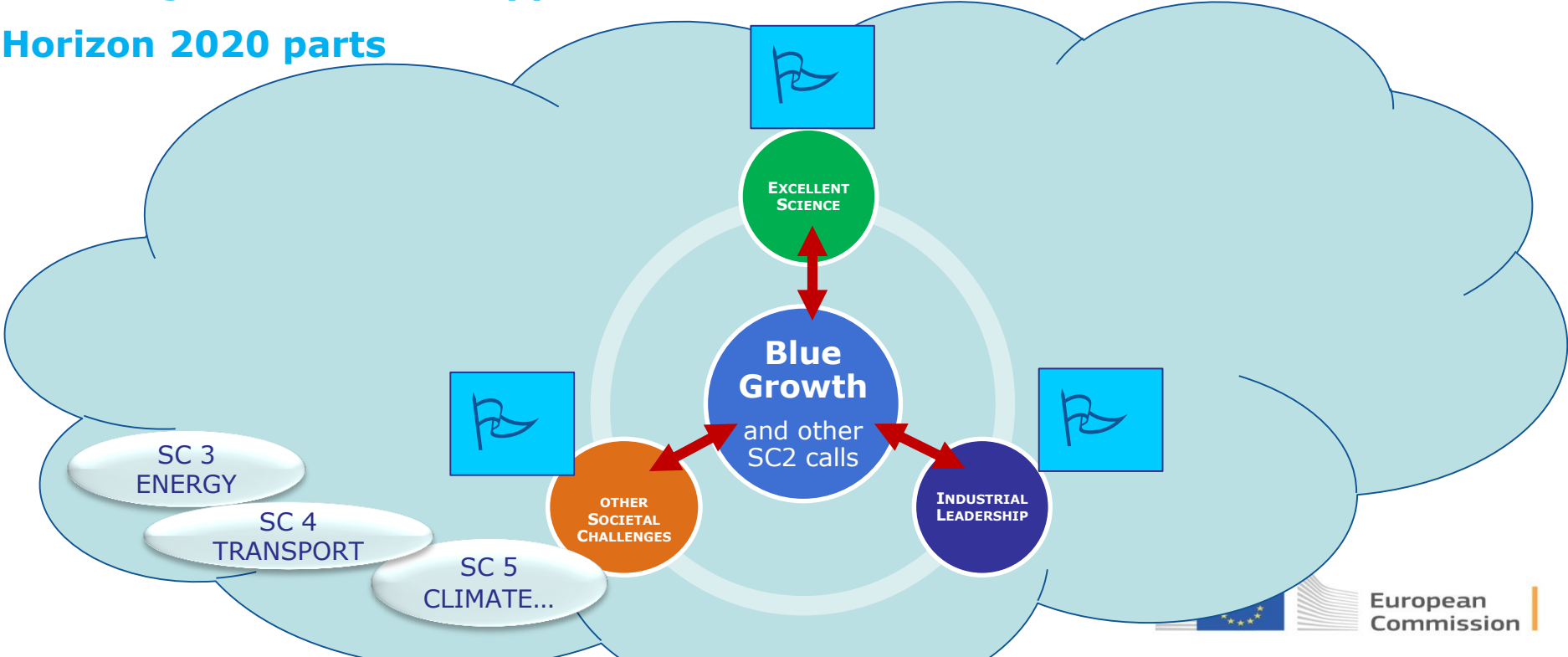


## Circular Economy

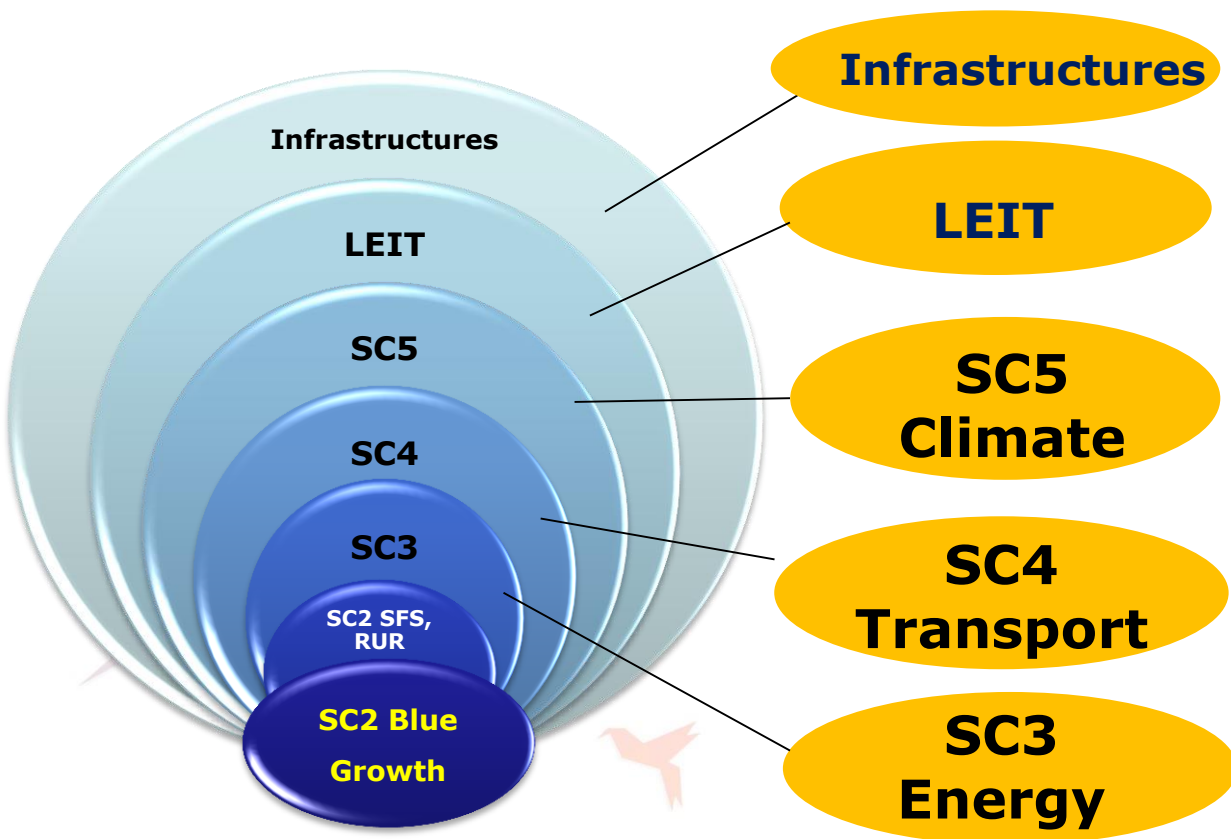
- Bio-based plastics on land and sea (18M€)

# Blue Growth across Horizon 2020

A strategic coordinated approach for marine and maritime research across all Horizon 2020 parts



# Blue Growth beyond SC2



## TOPICS EXAMPLES

- **Research Vessels**

- **SPACE – Copernicus Marine Services, ocean models**

- **NMBP: off-shore energy materials**

- **recovery of sea resources**
- **sea level changes**
- **ice-core drilling**

- **ships emissions**
- **unmanned & autonomous activities**
- **maritime transport safety**

- **wave energy**
- **offshore wind**
- **renewable energy technologies**



# OUR OCEAN, AN OCEAN FOR LIFE

5-6 OCTOBER 2017  
MALTA

## EU COMMITMENTS

**$\geq 250$  M€ / year on Ocean R&I**



European  
Commission

# Thank You!

**Participant Portal**

**<http://ec.europa.eu/research/participants/portal/>**

**Horizon 2020 National Contact Points**

**[http://ec.europa.eu/research/participants/portal/desktop/en/support/national\\_contact\\_points.html](http://ec.europa.eu/research/participants/portal/desktop/en/support/national_contact_points.html)**

**Research Enquiry Service**

**<http://ec.europa.eu/research/index.cfm?pg=enquiries>**

[www.ec.europa.eu/research/bioeconomy](http://www.ec.europa.eu/research/bioeconomy)

[www.ec.europa.eu/agriculture/research-innovation\\_en](http://www.ec.europa.eu/agriculture/research-innovation_en)



European  
Commission