

# HORIZON EUROPE: EXPLORING THE UPCOMING OPPORTUNITIES ANNUAL MEETING ON HORIZON EUROPE, NETWORKING AND CAPACITY BUILDING

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27/10/23



U. PORTO

- **CIIMAR THEMATIC LINES**
- **CIIMAR AND FP7, H2020 AND H EUROPE**
- **CIIMAR COLABORATIVE ECOSYSTEM**

The background features a stylized illustration of a fish, possibly a salmon, rendered in a sketchy, textured style. The fish is positioned horizontally, facing right. Behind the fish, there are several white circular lines of varying radii, creating a globe-like effect. The entire scene is set against a solid blue background.

1

UNIT DESCRIPTION

*CIIMAR mobilises a multidisciplinary, highly skilled and motivated team that works at the frontier of **Ocean knowledge and innovation.***

OUR VALUES



SUSTAINABLE DEVELOPMENT GOALS



**GLOBAL  
CHANGES AND  
ECOSYSTEMS  
SERVICES**

**MARINE  
BIOTECHNOLOGY**

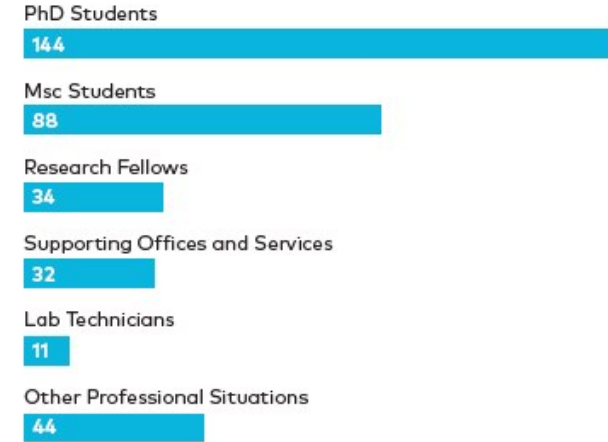
**BIOLOGY,  
AQUACULTURE  
AND SEAFOOD  
QUALITY**



**Integrated PhD holders**



**Non PhD holders**



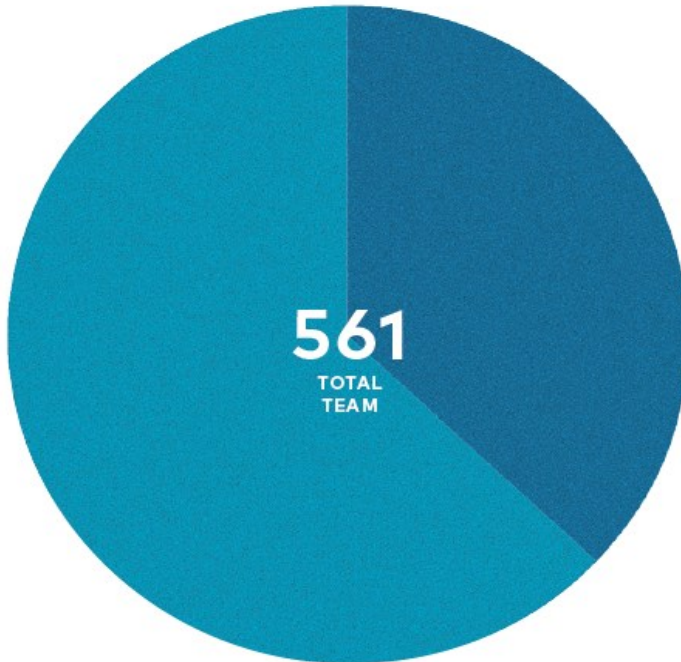
# OUR TEAM

CIIMAR 2022



**208** Integrated PhD holders

**353** Non-integrated PhD holders



**237**

Male



**324**

Female



**32**

Nationalities



**38**

Supporting offices and services



# TECHNOLOGY PLATFORMS



CIIMAR Platforms developed under various European Research Infrastructure Networks (e.g. EMBRC, EMSO, MIRRI-PT, OPENSREEN-PT, Bio.Data) represent a new strategic axis of the Centre to grant access to other institutions in the European Research Area and companies. These Platforms provide access and offer support and expertise to wide range of experimental services and equipment.



## EUROPEAN INFRASTRUCTURES



# SCIENTIFIC PUBLICATIONS

CIIMAR 2022

**557** Publications in peer reviewed journals

**62** Edited special issues of journals

**37** Books and Book chapters

**80** Other publications



**24** Completed PhD theses

**88** Completed MSc theses

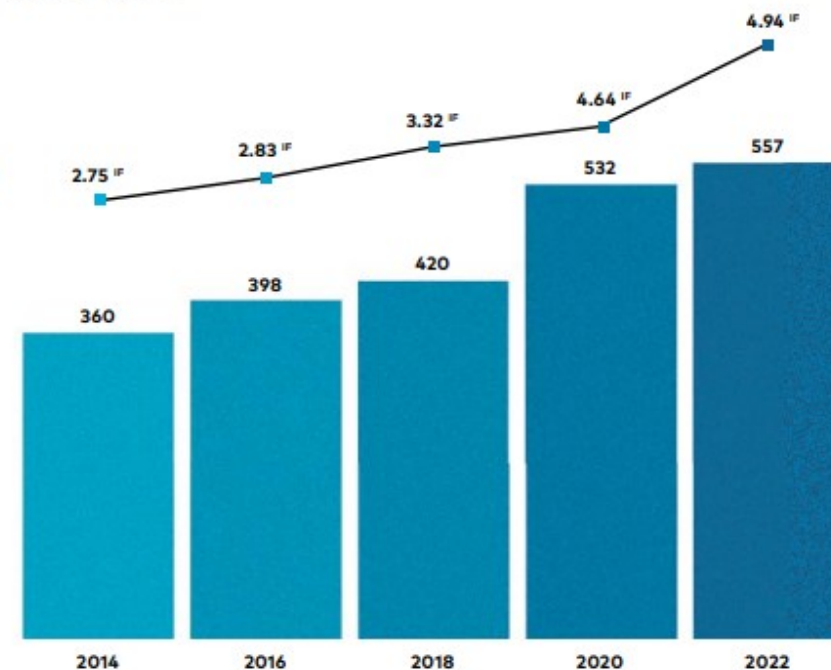


# PUBLICATIONS

CIIMAR 2022

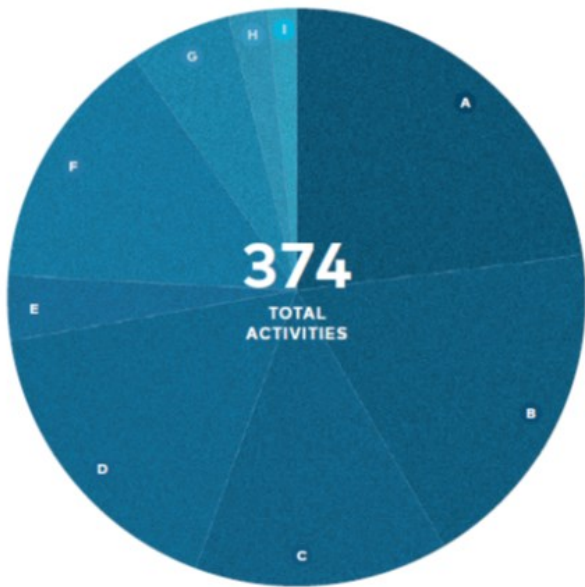
Nr. of publications in peer reviewed journals

<sup>IF</sup> Average Impact Factor



**20 deposited patents**





87	<b>A</b>	Activities and lectures at schools	3250	Participants
69	<b>B</b>	Visits and activities at CIIMAR	1783	Participants
52	<b>C</b>	Outdoor activities	1288	Participants
63	<b>D</b>	Public lectures	2697	Participants
13	<b>E</b>	Exhibitions	86352	Participants
54	<b>F</b>	Scientific seminars	2615	Participants
22	<b>G</b>	Workshops	3953	Participants
8	<b>H</b>	Teachers' formation	152	Participants
6	<b>I</b>	Public events	50500	Participants

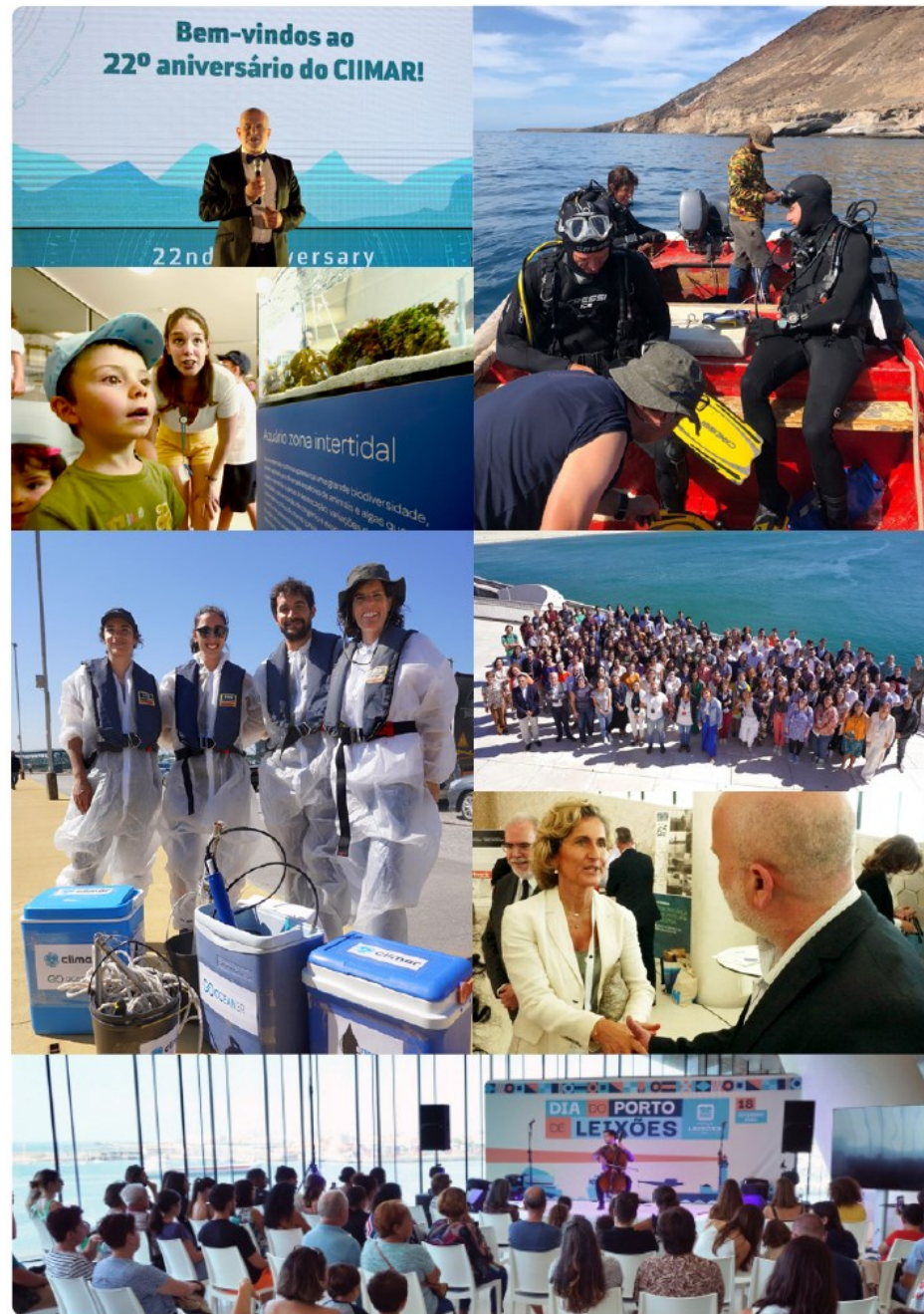


433	Online news
97	Press
7	Radio
31	TV

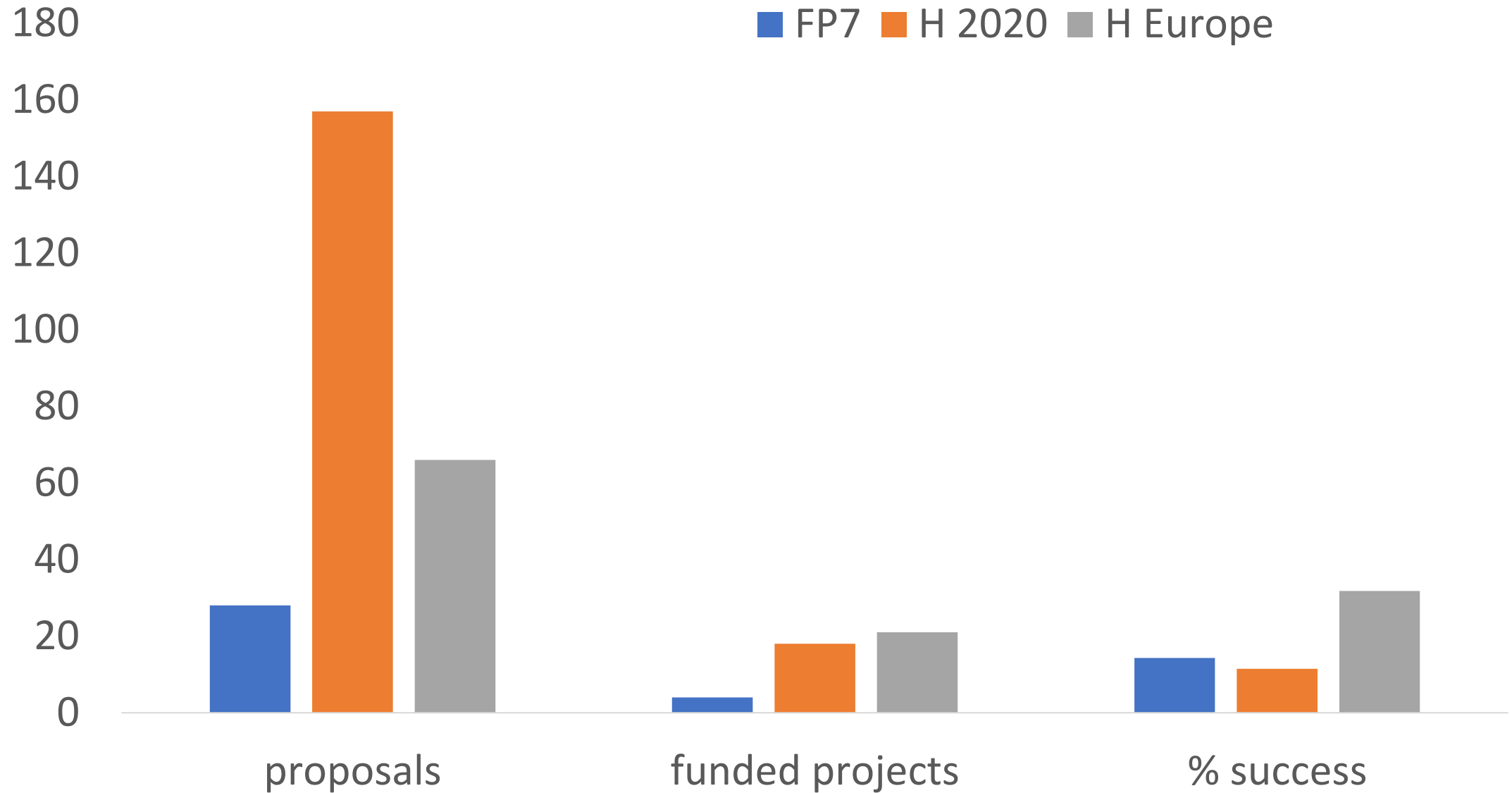


666	Twitter
568	Facebook
602	LinkedIn
359	Instagram

<b>159</b>	<b>151</b>	<b>22</b>
Communications in international scientific meetings	Communications in national scientific meetings	Training courses



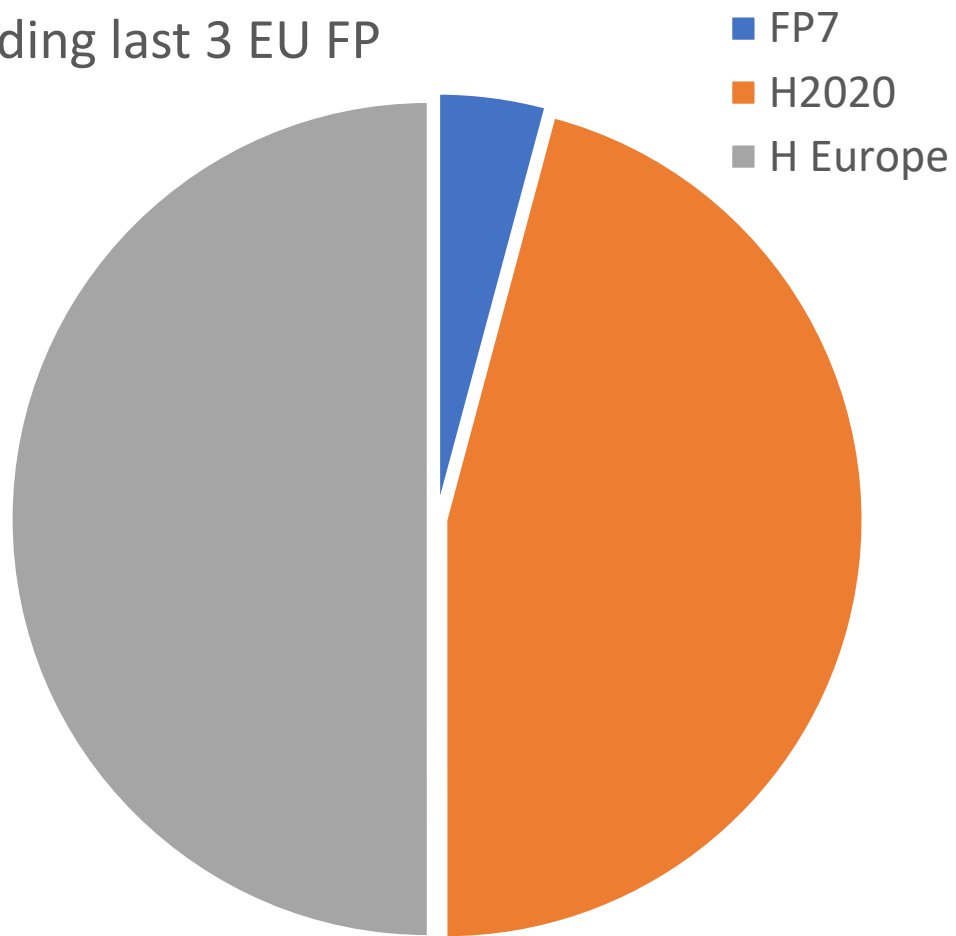




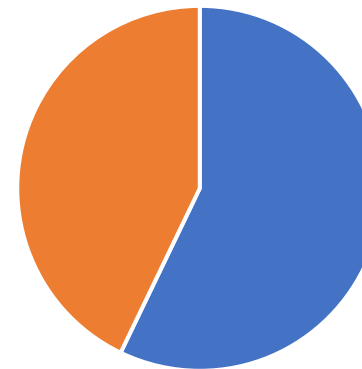
# EU PROJECTS



% funding last 3 EU FP

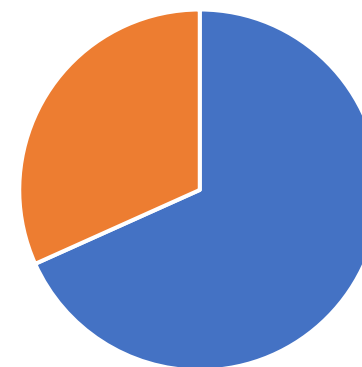


number



Male Female

% funding



Male Female

## MISSION AREAS:

Soil health and food



Adaptation to climate change, including societal transformation



Climate-neutral and smart cities



Cancer



Healthy oceans, seas, coastal and inland waters



#HorizonEU



European  
Commission

BlueBioFuture

WIDENING ERA CHAIR

TOXICROP



grinn aqua

WIDENING TWINNING

BIOTOX Dôc



Fatty Cyanos



MID FUN



ASSEMBLE ASSOCIATION OF EUROPEAN MARINE BIOLOGICAL LABORATORIES EXPANDED



# CIIMAR corporate associates

- Public



- Private



# PROGRAMAS MOBILIZADORES





# Agendas Mobilizadoras



## INNOVATION PACT INCLUDES 7 BUSINESS VERTICALS:

VERTICAL BIOMATERIALS	VERTICAL BIVALVES	VERTICAL TEXTILES	VERTICAL FOOD	VERTICAL ALGAE	VERTICAL FEED	VERTICAL FISH
Production of resistant marine biobased materials with a <b>longer life cycle</b> enabling the partial or total substitution of synthetic solutions for automotive components with <b>fossil fuel free cork composites</b> and extruded films	Scaling clam production, by creating the <b>world's first offshore production site</b> . Investments in a clam nursey, as well as the <b>digitalization of infrastructures through the integration of sensors (IoT)</b> , collecting data regarding hatchery reproduction and enabling the development of innovative operating methodologies	Production of new, <b>smart, high value-added biofunctional textiles</b> sourced from natural raw materials, namely seaweed; as well as <b>recycled and reintroduced waste</b> , such as discarded fishing nets for the <b>Lighting Bolt®</b>	Development of new healthy, nutritious and environmentally <b>sustainable products</b> , using new ingredients and <b>packaging formats</b> for canned food expanding the range of products available as well as significantly <b>increasing nutritional value</b>	Producers of Micro and Macroalgae seek to <b>increase technological capacity and optimizing production and processing</b> , catalyzing the sector. Developing novel applications such as <b>biofertilizers</b> and <b>biopesticides</b> , fortified <b>premade meals</b> as well as in <b>cosmetics</b> and <b>nutraceuticals</b>	<b>Animal by-products</b> (e.g. from fish, poultry, swine) and insects will be used to <b>develop innovative high value-added solutions</b> (hydrolysates) for application in functional feed for farmed fish species improving <b>fish health</b> as well as <b>nutritional value</b> all the while <b>reducing food waste</b> and <b>preserving the oceans' resources</b>	Development of <b>quality control systems</b> for the fisheries industry using <b>bioinformatics</b> and <b>biomolecular tools</b> such as <b>DNA barcoding</b> , and other immunochemical techniques, to respond to the prevalence of parasites and <b>reduce excess waste in fisheries</b> destined for the retail sector

## AND 3 OVERARCHING CAPACITY BUILDING PROJECTS:

PORTUGUESE BLUE BIOBANK	MARINE CO-PRODUCTS VALORIZATION PLATFORM	GROWTH AND INTERNATIONALIZATION CAPACITATION
<b>Digital network</b> of national marine resource biobanks to facilitate the sustainable and regulated access to Portuguese marine biodiversity for scientific and industrial users, promoting compliance with the regulations that derive from the <b>Nagoya Protocol</b> .	Mapping marine coproducts from existing industries, through a <b>digitalized matching processes</b> that will integrate different existing <b>databases</b> , allowing access to players in the market which can reintroduce these materials in existing industries ( <b>circular economy</b> )	Strengthening dynamic relationships between players in the blue bioeconomy space and encouraging the <b>establishment and growth</b> of new startups and SMEs <b>accelerating</b> their development and promoting their <b>internationalization</b> .



Financiado pela  
União Europeia  
NextGenerationEU

# HORIZON EUROPE

# EURATOM

## SPECIFIC PROGRAMME: EUROPEAN DEFENCE FUND

*Exclusive focus on defence research & development*

Research actions

Development actions

## SPECIFIC PROGRAMME IMPLEMENTING HORIZON EUROPE & EIT\*

*Exclusive focus on civil applications*



**Pillar I  
EXCELLENT SCIENCE**

European Research Council

Marie Skłodowska-Curie

Research Infrastructures



**Pillar II  
GLOBAL CHALLENGES &  
EUROPEAN INDUSTRIAL  
COMPETITIVENESS**

Clusters

- Health
- Culture, Creativity & Inclusive Society
- Civil Security for Society
- Digital, Industry & Space
- Climate, Energy & Mobility
- Food, Bioeconomy, Natural Resources, Agriculture & Environment

Joint Research Centre



**Pillar III  
INNOVATIVE EUROPE**

European Innovation Council

European innovation ecosystems

European Institute of Innovation & Technology\*

WIDENING PARTICIPATION AND STRENGTHENING THE EUROPEAN RESEARCH AREA

Widening participation & spreading excellence

Reforming & Enhancing the European R&I system

Fusion

Fission

Joint Research Center

\* The European Institute of Innovation & Technology (EIT) is not part of the Specific Programme

*Thank You!*