HORIZON EUROPE

Horizon Europe Marine & Maritime **Brokerage event**

28th April 2021











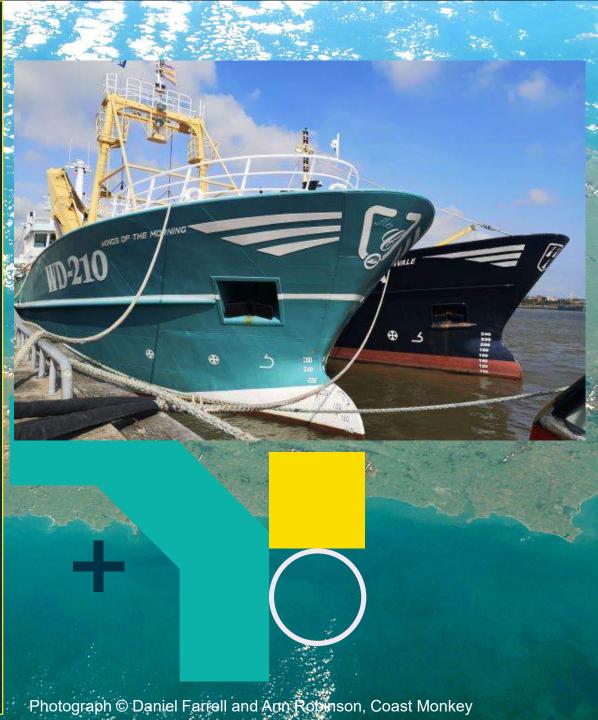












Practical details

The event will be recorded and available on https://horizoneurope.ie/

Slides, contact details and responses to questions will be uploaded to same website

Today's presentations are based on **DRAFT WORKPROGRAMMES**

Please post your questions in the chat function as participants will be muted



After the pitching sessions participants should move to the B2B platform for the 1:1 meetings and brokerage sessions https://horizon-europe-marine-brokerage-event.b2match.io/



This event is a partnership between the European Enterprise Network, Invest Northern Ireland and Cluster 5 and Cluster 6 NCPs in Denmark, Ireland, the UK, Iceland, Northern Ireland, **Scotland & Norway**



























What to expect today

Helicopter view of the new Horizon Europe funding programme

Draft high-level marine and maritime opportunities within:

Cluster 5 (Climate, Energy and Mobility) &

Cluster 6 (Food, Bioeconomy, Natural Resources,

Agriculture and Environment)

Keep eye open in other Clusters and Pillars!



Agenda

10.00am -

9.10am - An Introduction to Horizon Europe – Niels Gøtke (Cluster 6 NCP Denmark)

9.30am - Marine & Maritime topics in Cluster 5 — Philip Cheasty (Cluster 5 NCP Ireland)

Bob Flynn (Cluster 5 NCP Ireland)

Waterborne Transport Partnership: Louise Mothersole (Cluster 5 NCP UK)

9.45am – Part 1 of Cluster 6 - Kolbrún Bjargmundsdóttir (Cluster 6 NCP Iceland)

Part 2 of Cluster 6 – Helen Sweeney (Cluster 6 NCP UK)

10.15am – Supports available – Elaine Groom (Cluster 6 NCP Northern Ireland)

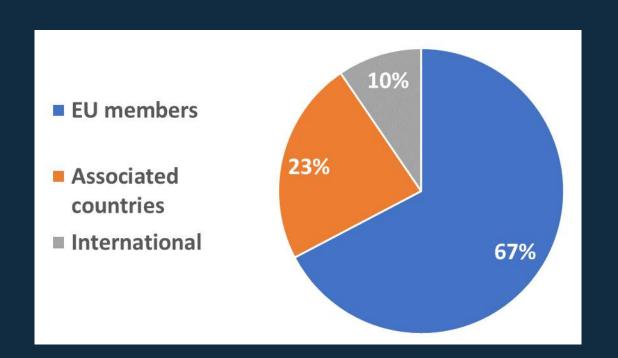
10.25am – Coffee Break

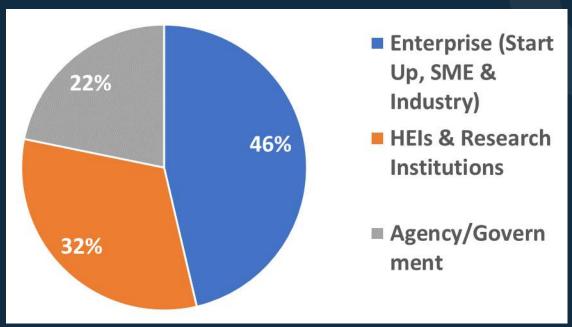
10.40am – Elevator Pitches - Lisbeth Vassaas (EEN NCP Norway)

12.30pm - 1:1 Meetings on B2B platform

Location of Participants

Type of Participant







Market Place Opportunities

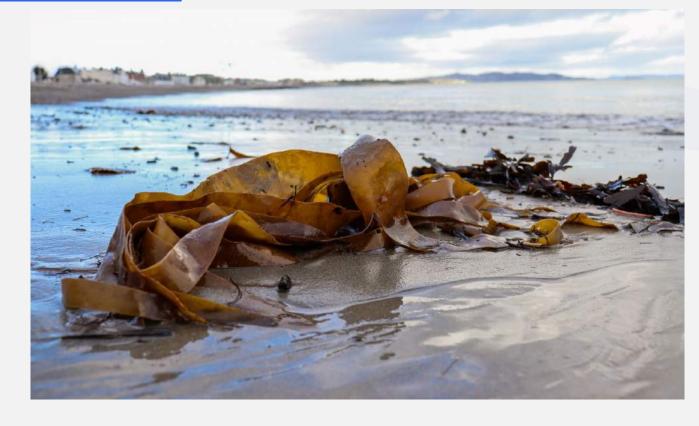
https://horizon-europe-marine-brokerage-event.b2match.io/marketplace

You can still go to the B2B website to book meetings

Over 350 meetings and interactions have been booked and this will continue for the duration of the day

There are 282 Marketplace opportunities

The platform will be available to you to review marketplace opportunities and participant details after the event





























Horizon Europe. Opportunities and novelties. EEN marine / maritime brokerage event 28 April 2021

Niels Gøtke, Head of Division

Danish Agency for Science and Higher

Education



nigoe@ufm.dk / 72318396

Agenda

- 1. Understanding HEU, (what is new, intervention logic, types of action, evaluation, partner or coordinator in the consortium)
- 2. Cluster 5 and Cluster 6 in HEU
- 3. Partnerships and Missions in HEU -why are they important)



What is





Understanding Horizon Europe

- The 9th EU framework programme for research and innovation
- € 95,5 billion funding for research, innovation and societal transitions 2021-2027
- European investments in order to shape our future
- Solutions to specific, European and/or Global challenges



Horizon Europe

Total budget cf. MFF: 95,5 bil. € (current prices)

Pillar I: Excellent Science

(25 bil. €)

European Research Council (ERC) (16 bil. €)

Marie Skłodowska-Curie Actions (6,6 bil. €)

Research infrastructures (2,4 bil. €)

Pillar II: Global Challenges and European Industrial Competitiveness (53,5 bil. €)

Clusters:

- 1. Health (8,2 bil. €)
- 2. Culture, Creativity and Inclusive Society (2,3 bil. €)
- 3. Civil Security for Society (1,6 bil. €)
- 4. Digital, Industry and Space (15,3 bil. €)
- 5. Climate, Energy and Mobility (15,1 bil. €)
- 6. Food, Bioeconomy, Natural Resources, Agriculture and Environment (8,9 bil. €)

Partnerships (max 40 % budget of pillar II)

Missions (max 10 % budget of pillar II)

Pillar III: Innovative Europe

(13,6 bil. EUR)

European Innovation Council (EIC) – Accelerator and Pathfinder (10,1 bil. €)

European Innovation Ecosystems (0,5 bil. €)

European Institute of Innovation and Technology

+ KICs

(2,9 bil. €)

Underlying topics: "Widening" and Strengthening the European Research Area (3,4 bil. €)

A vision for Europe

"A sustainable, fair and **prosperous** future for **people** and **planet** based on European values."

- Tackling **Climate change** (35 % budgetary target)
- Helping to achieve **Sustainable Development Goals** (Paris Agreement and European Green Deal)
- Boosting the Union's competitiveness and growth





CLIMATE
PACT AND CLIMATE
LAW

PROMOTING CLEAN ENERGY



SMAI SUS TR

INVESTING IN SMARTER, MORE SUSTAINABLE TRANSPORT

PROTECTING NATURE





STRIVING FOR GREENER INDUSTRY

FROM FARM TO FORK



The European Green Deal



ELIMINATING POLLUTION

LEADING THE GREEN CHANGE GLOBALLY



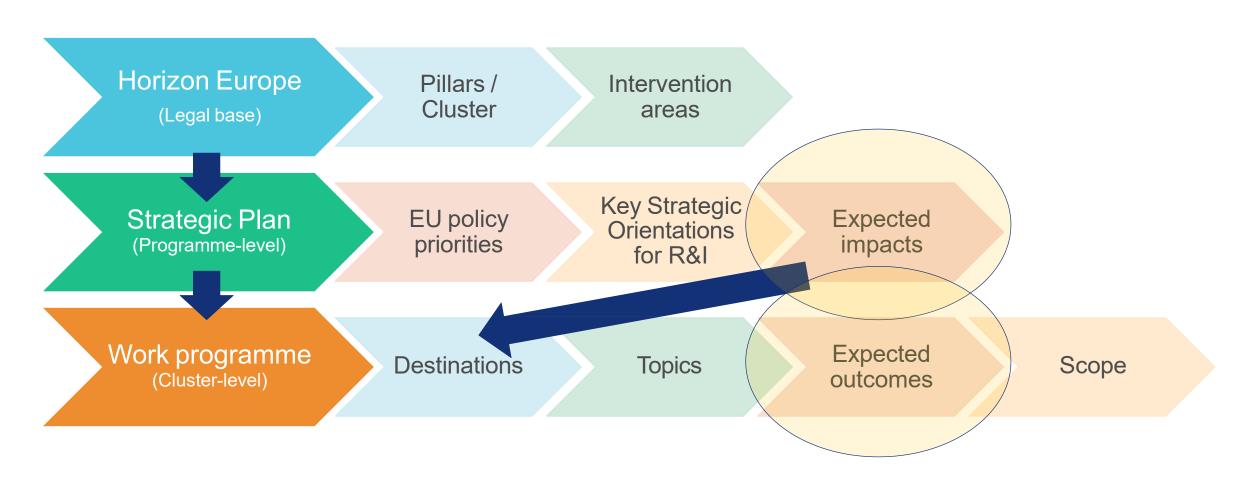
MAKING HOMES ENERGY EFFICIENT



FINANCING GREEN PROJECTS ENSURING
A JUST TRANSITION

FOR ALL

Horizon Europe Intervention Logic



	EC POLICY PRIORITIES	Political Guidelines for the European Commission 2019-2024 (and other key strategic documents - e.g. Green Deal)		
STRATEGIC PLAN	KEY STRATEGIC ORIENTATIONS FOR R&I	Set of strategic objectives within the EC policy priorities where R&I investments are expected to make a difference		
	IMPACT AREAS	Group of expected impacts highlighting the most important transformation to be fostered through R&I		
STR/	EXPECTED IMPACTS ⇒DESTINATIONS	Wider effects on society (incl. the environment), the economy and science enabled by the outcomes of R&I investments (long term)		
	= General objectives	Strategic Plan & Work Programme: R&I contribution to seamless, smart, inclusive and sustainable mobility services	Project : Increase maximum passenger capacity by 15% and passenger average throughput by 10%, leading to a 28% reduction in infrastructure expansion costs	
	EXPECTED OUTCOMES =>TOPICS	Effects of Horizon Europe projects such as uptake, diffusion, use and deployment of the projects' results by direct target groups (medium term)		
	= Specific objectives	Work Programme: Innovative accessibility and logistics solutions applied by the European Transport sector	Project : At least 9 European airports adopt the advanced forecasting system that was demonstrated during the project	
	=>PROJECT RESULTS = Operational objectives	What is produced during the project implementation, such as innovative solutions, algorithms, new business models, guidelines, policy recommendations, methodologies, publications, database, prototypes, trained researchers, new infrastructures, proof of feasibility, networks, etc. (short term)		
		Project (by the end of its implementation):	Project (by the end of its implementation): Successful large-scale demonstration trial with 3 airports of an advanced forecasting system for proactive airport passenger flow management	

Evaluation criteria – in Horizon Europe

Conditions set out in the Model Grant Agreement many novelties:

Excellence (up to 5 points)
Open science (novelty)

Impact (up to 5 points)

Key Impact Pathways to achieve outcome and impact (novelty)

Implementation (up to 5 points)

Quality of applicants (novelty)

More focus on D&E (novelty)





IMPACT DESIGN IN HORIZON EUROPE

Scientific impact

Promote scientific excellence, support the creation and diffusion of high-quality new fundamental and applied knowledge, skills, training and mobility of researchers, attract talent at all levels, and contribute to full engagement of Union's talent pool in actions supported under the Programme.

Societal impact

Generate knowledge, strengthen the impact of R&I in developing, supporting and mplementing Union policies, and support the uptake of innovative solutions in industry, notably in SMEs, and society to address global challenges, inter alia the SDGs

Economic impact

Foster all forms of innovation, facilitate technological development, demonstration and knowledge transfer, and strengthen deployment of innovative solutions



Cluster 6: Work Programme 2021-2022 budget distribution per destination



Excluding funds allocated for missions and the EU contribution to CBE for Work Programme 2021-2022 available around **EUR 1.8 billion. At this stage all figures are indicative and subject to MFF negotiations outcomes**

Destination	Number of topics	Budget [mln EUR]	% Share
1 Biodiversity and ecosystem services	36	369,5	20,2%
2 Fair, healthy and environmentally-friendly food systems from primary production to consumption	43	425	23,3%
3 Circular economy and bioeconomy sectors	21	230	12,6%
4 Clean environment and zero pollution	11	86	4,7%
5 Land, oceans and water for climate action	15	195	10,7%
6 Resilient, inclusive, healthy and green rural, coastal and urban communities	13	127	7,0%
7 Innovative governance, environmental observations and digital solutions in support of the Green Deal	42	356,5	19,6%
Other actions	11	35,5	1,9%

WP Cluster 5 - Overview

RIA: Research and Innovation Action **CSA**: Control and Support Actions

IA: Innovation Actions (CA: Co-funded Actions)

Destination 5 -Destination 6 -Destination 2 -Clean and Destination 4 -Destination 1 -Destination 3 -Transport and Cross-cutting competitive **Smart Mobility** Climate science **Energy supply Energy demand** solutions solutions for all services transport modes Connected. Zero-emission Renewable Cooperative Batteries road transport energy and Automated Mobility Buildings Energy system, Aviation Multimodal and Cities grids and sustainable storage transport Waterborne Climate science systems for transport passengers Breakthrough CCUS and goods technologies Transportrelated health Industry Citizen and and Safety and Cross-cutting stakeholder environmental resilience activities engagement issues 9 topics in 2021 16 topics in 2021 35 topics in 2021 7 topics in 2021 16 topics in 2021 13 topics in 2021 - 7 RIA, 2 CSA - 11 RIA, 4 CSA, (1 CA) - 11 IA, 8 CSA, 15 RIA, (1 - 6 IA, 8 RIA, 2 CSA - 6 IA, 7 RIA - 7 IA CA) 8 topics in 2022 11 topics in 2022 11 topics in 2022 15 topics in 2022 15 topics in 2022 - 8 RIA - 2 IA, 7 RIA, 2 CSA 32 topics in 2022 - 7 IA, 3 RIA, 1 CSA - 5 IA, 8 RIA, 2 CSA - 8 IA, 7 RIA - 20 IA, 12 RIA

Partnerships in HEU



European Partnerships: what is new?

- Only support partnerships if there is evidence that they are more effectively achieving policy objectives than Horizon Europe alone
- Fewer partnerships with higher impacts
- Common and coherent framework of criteria along the life cycle of partnerships, across all pillars, even across programmes and other regulations
- Increase openness and encourage a broader set of actors to participate
- Improve coherence between partnerships and Horizon Europe, also the missions
- Time limited with conditions for phasing-out the Programme funding (impact by 2030)



Cluster 6 Co-funded partnerships in WP - figures to be revised according to MS commitments

Co-funded partnership	Work Programme where the topic is introduced	Proposed EU budget for 7-years
Rescuing biodiversity to safeguard life on Earth	2021-2022	140 mln EUR
A climate neutral, sustainable and productive Blue Economy	2021-2022	200 mln EUR
Vater4AII	2021-2022	126 mln EUR
Accelerating farming systems transition: agroecology iving labs and research infrastructures	2023-2024	150 mln EUR
Animal health: fighting infectious diseases	2023-2024	180 mln EUR
Environmental observations for a sustainable EU agriculture	2023-2024	75 mln EUR
Safe and sustainable food systems for people, planet and climate	2023-2024	175 mln EUR



Total budget for all co-funded partnerships around EUR 1 billion, (figures are subject to changes depending on MS commitments).

Outside the WP: Circular bio-based Europe (Joint Undertkating): EUR 1 billion



Cluster 5 – Links to missions/partnerships

Other EU funding programmes



Other HE parts and Partnerships

Cluster 5 WP

Including European Partnerships

Co-programmed:

- Buildings
- Zero-emission road transport
- Batteries
- Zero-emission waterborne transport
- Connected, Cooperative and Automated Mobility

Co-funded:

- Driving urban transitions
- Clean Energy Transition

Missions

- Cities
- Climate
- Oceans

Cluster 5 Institutional Partnerships

- Rail
- Hydrogen
- Clean Aviation
- Air Traffic
 Management

Co-programmed partnership: 'Zero Emission Waterborne Transport'

- Contribution from the EU-Commission 2021-2027: 530 mio. euro
- Contribution from the EU-Commission in 2021-2022 work programme: 162,5 mio. euro = 12 topics in cluster 5 work programme

Missions in HEU

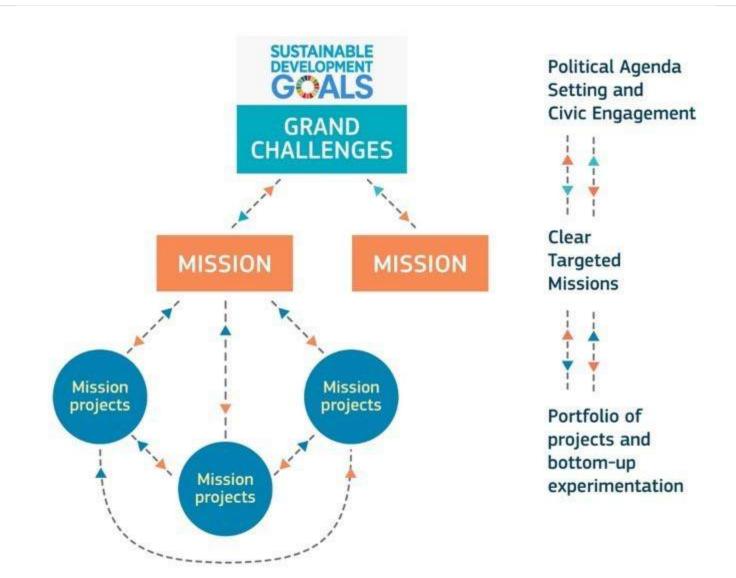
- Cancer,
- Adaptation to Climate Change,
- Healthy Oceans, Seas, Coastal and Inland Waters",
- Climate Neutral and Smart Cities,
- Soil Health and Food.

12 month preparation phase,. Missions will have their own work-programme.

https://ec.europa.eu/info/horizon-europe/missions-horizon-europe_en



"European research and innovation missions sits between broad challenges and concrete projects. Missions set clear and ambitious objectives that can only be achieved by a portfolio of research and innovation projects and supportive measures." (Mazzucato 2018)



Mission Healthy Oceans, Seas, Coastal and Inland Waters: Strategic objective

Make the EU fit by 2030 for systemic ocean and water restoration

















From mission recommendation to implementation plan and the mission



Overall mission orientations

Practical implementation steps

Mission implementation phases



- ENABLERS:
- Actions to increase knowledge and understanding of ecosystems, innovation, digitalisation and governance
- Launch of programme to boost blue education and skills
- Launch of citizen and stakeholder engagement activities throughout the EU



Phase II (2025-2030)

- Scale up of large area based lighthouses
- Replication of lighthouses for all Mission objectives throughout the EU through a bottom-up selection process
- Implementation and scale up of the Blue programmes
- Actions to further boost knowledge, innovation, digitalisation, training and education, and governance
- Citizen and stakeholder engagement activities throughout the EU





Citizen and stakeholder engagement



Blue volunteer corps to help ecosystem restoration and protection



Citizen science campaigns to boost knowledge and awareness



Opportunities for involvement in the Mission lighthouses and in the Blue Parks programme

Possible funding sources for the Mission

EU funds & Instruments

- Horizon Europe
- EMFAF, LIFÉ, ESIFS, CEF (+ INTERREG), COPERNICUS, Digital Europe Financial Facility, EFSI, INTPA NDICI, Innovation Fund, Erasmus, InvestEU, Innovation Fund, BlueInvest. etc.

MS/regional funds & instruments

- Cohesion Funds
- •National Recovery and Resilience Plans
- National Public Funds (NPF) and Regional Public Funds (RPF)
- FRDF
- Other national and regional funds, programmes, and initiatives

Private funds

- •Impact funding (Credit Suisse, AXA Impact Fund –Climate & Biodiversity, Nordic investment Bank, etc.)
- •European Investment Bank Group (Blue Sustainable Ocean Strategy ("Blue SOS"), Clean Ocean Initiative, BREAKTHROUGH ENERGY VENTURES EUROPE FUND, European Circular Bioeconomy Fund (ECBF))
- Venture Capital funds

Philanthropy

- Foundations: Oceano Azul, Ellen McArthur Foundation, Foundation Mava, Adessum Foundation, The Prince Albert II of Monaco Foundation, Thalassa Foundation, Ocean Cleanup ...
- •Private funds (Ocean Conservation Fund)
- Multidonor trust funds (World Bank PROBLUE)
- Crowdfunding

In addition, in cooperation with the EIB Advisory, new sources of sustainable financing for conservation, non-financial/innovative instruments will be investigated such as fiscal incentives, green and blue bonds, pension funds, environment finance corporations, blue carbon resilience credits, insurance, etc.

