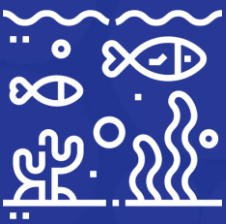




EU Mission: “Restore our Ocean and Waters”



Plenary session #2

Ecosystem Conservation



Gary Kett

*All-Atlantic Ocean
Youth Ambassador for
Ireland*



Sigi Gruber

*Active Senior Advisor to the
European Commission*

5th Symposium | Accra, Ghana | 24 – 28 October 2022





EU MISSIONS

RESTORE OUR OCEAN & WATERS

BY 2030



Opportunities for collaboration & synergies

Gary Kett

All-Atlantic Ocean
Youth Ambassador

&

Sieglinde Gruber

Senior advisor to the
European Commission

@GruberSigi



twitter

@GaryFKett

#EUmissions

#HorizonEU

#MissionOcean

#geoblueplanetsymposium





What is the Mission to Restore our Ocean and Waters

The Mission is a collective endeavor to achieve shared goals

The Mission is a hub of connectivity, cooperation and collaboration

The Mission is a bridge for communities, stakeholders and researchers to co-create, co-design and co-implement projects and actions

The Mission is a joint commitment to restore our Ocean and our Waters



Objectives & Targets

Protect & Restore Marine and Freshwater Ecosystems & Biodiversity

- Protect at least 30% of EU's sea area by 2030
- Restore 25,000 km of rivers
- Contribute to marine nature restoration targets

Prevent & Eliminate Pollution

- Reduce plastic litter at sea by at least 50%
- Reduce microplastics entering environment by at least 30%
- Reduce nutrient losses and chemical pesticides by at least 50%

Carbon-Neutral and Circular Sustainable Blue Economy

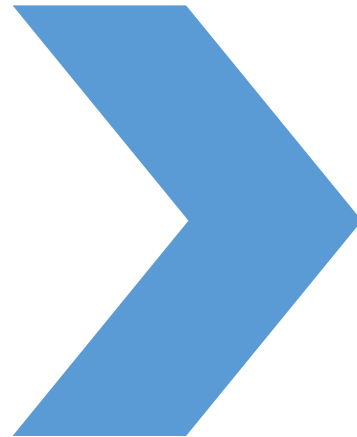
- Net zero maritime emissions
- Zero carbon aquaculture
- Low carbon multi-purpose use of marine space



Enablers

Two cross-cutting enablers to facilitate objectives

Digital Ocean Knowledge System



Digital Infrastructure Service

Digital Twin Ocean

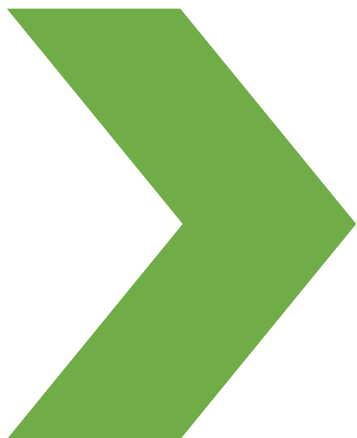
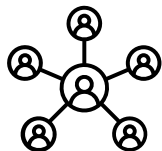


EMODnet
European Marine Observation and Data Network



Data Analytics

Public Engagement & Mobilisation



Participation & Democracy

Citizen Science & Literacy



Stewardship & Volunteering

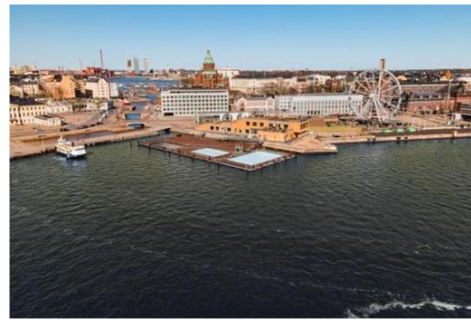


EUROPEAN UNION

Lighthouses



Arctic & Atlantic
sea basin



Baltic &
North sea basin



Mediterranean
sea basin



Danube river
basin

- Are sites which pilot, demonstrate, test and upscale Mission relevant Research & Innovation activities
- Act as hubs and platforms for transformative innovations
- Integrate existing and new knowledge, local enterprise, citizen engagement, youth involvement and public outreach
- Develop and deploy technological, social, business and governance innovations



EUROPEAN UNION

Protect & Restore Marine and Freshwater Ecosystems & Biodiversity

Arctic & Atlantic sea basin



Danube river basin



Already existing:

- All-Atlantic Ocean Research Alliance
- Atlantic Action Plan 2.0
- OSPAR
- Copernicus global
- NWS79
- IBI ocean monitoring and forecasting centres

Already existing:

- Macroregional strategy for the Danube river basin⁷⁷
- International Commission for the Protection of the Danube river⁷⁸

Mediterranean sea basin



Already existing:

- Union for Mediterranean
- BlueMed initiative
- UNEP-MAP
- PRIMA
- Western Med sea-basin strategy
- Copernicus Black-Sea and Med Sea Ocean monitoring and forecasting centres

Prevent & Eliminate Pollution





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EU MISSIONS

RESTORE OUR OCEAN & WATERS



Baltic & North sea basin



Carbon-Neutral and
Circular Sustainable Blue
Economy



SOCLIMPACT



BANOS

Baltic and North Sea Coordination
and Support Action

Already existing:

- HELCOM82
- BANOS Baltic and North Sea Co-operation
- EU Strategy for the Baltic Sea Region
- Copernicus, Arctic and Baltic ocean Monitoring and forecasting centre

XOCEAN



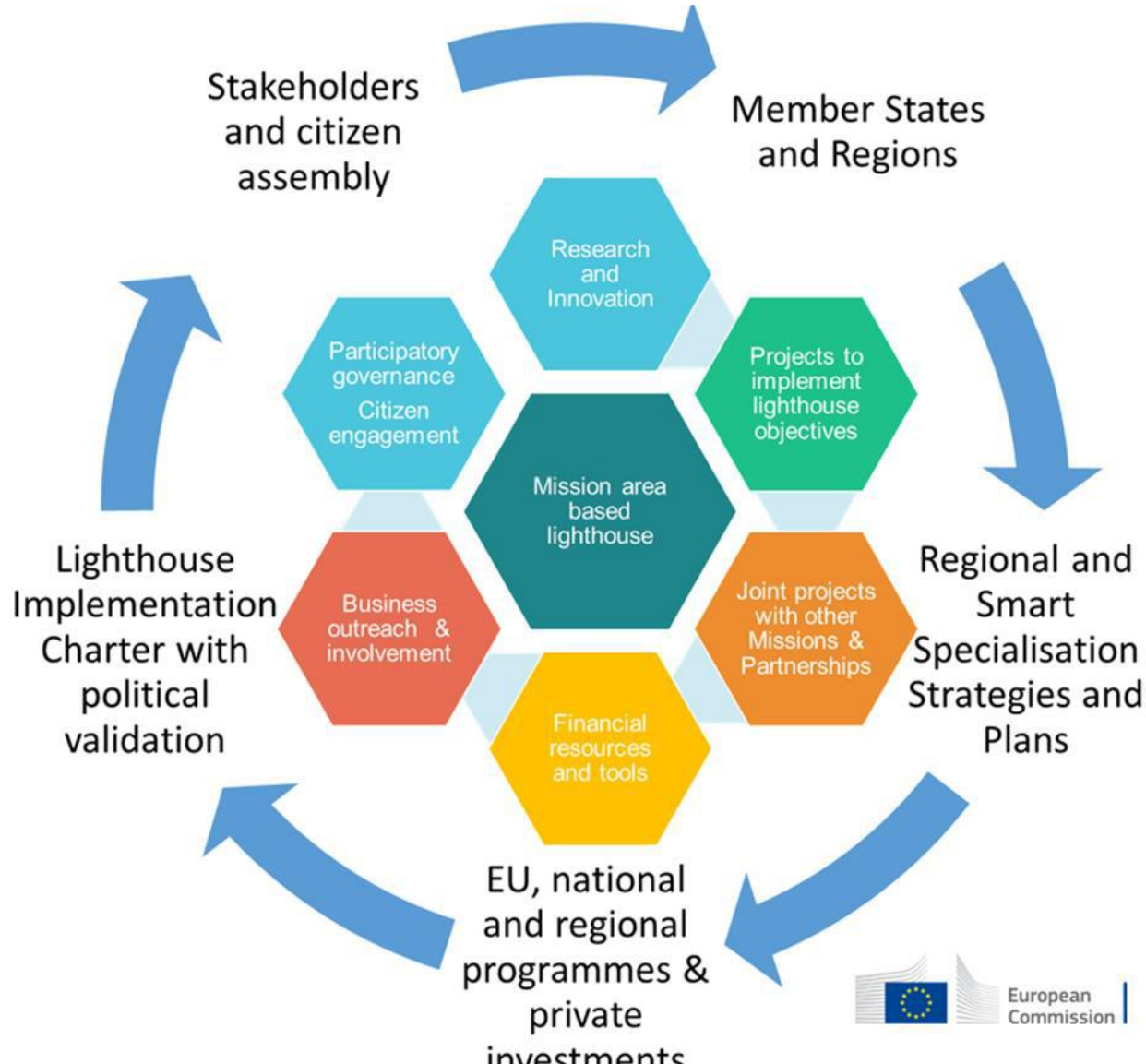
Blue-Cloud

Piloting innovative services for Marine Research & the Blue Economy



CONNECT  BLACK SEA







Case study – Oyster aquaculture

An **example** of ONE local initiative endorsing the charter

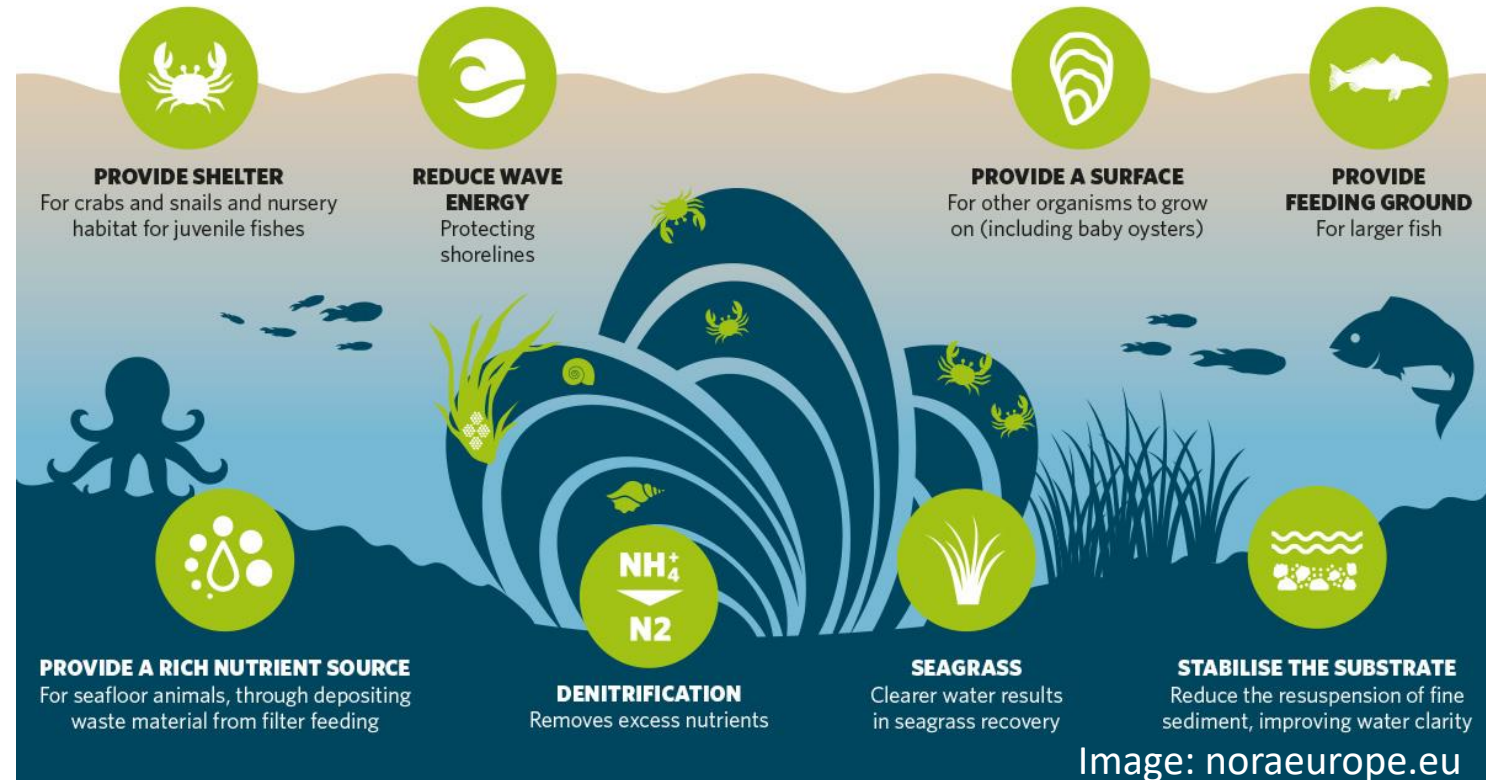
Gary Kett, PhD. Zoology

Pacific oyster *Crassostrea gigas* health and pathogen development in a changing marine environment



Provides a wide range of ecosystem services

- Reduces eutrophication
- Sequesters carbon
- Boosts biodiversity





Pacific oyster (*C. gigas*) Blue Economy in Ireland

- > 10,000 tonnes annually
- > €45 Million euro annually
- > 1,000 people directly employed
- Cultural heritage preservation
- Offers valuable resource for bioeconomy
- Nature-based solutions for food security and coastal protection

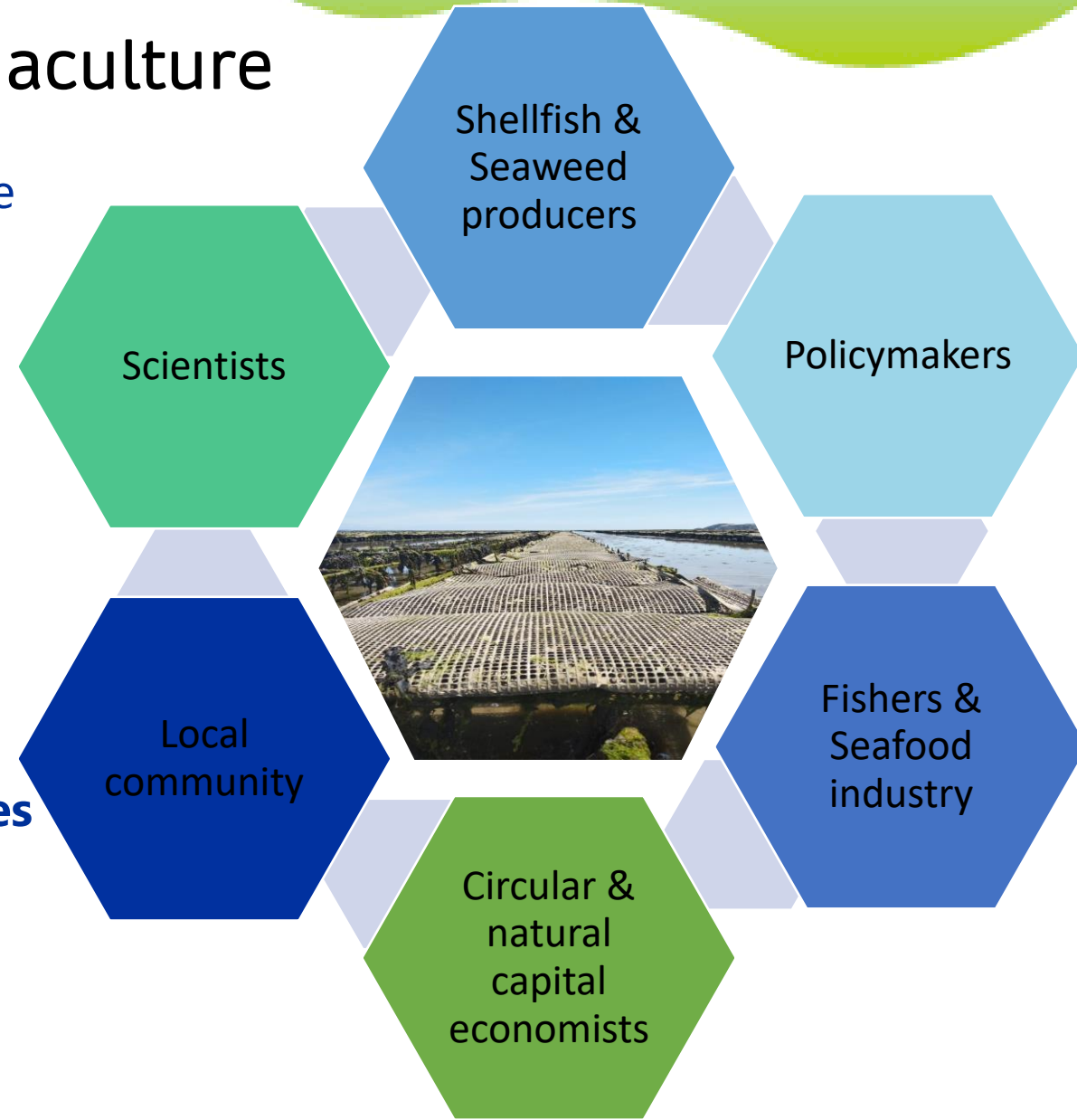




Stakeholders of Irish shellfish aquaculture

To boost the sustainability, growth and cohesion of the local low-trophic aquaculture sector:

- A **holistic, systems-thinking approach** is used to bring together all actors within the sector.
- In-person meetings, workshops, symposia are designed to **open dialogue, share knowledge and explore solutions**.
- Challenges, **obstacles and issues are explored** and addressed.
- Horizon-scanning explores **synergies, best-practices and opportunities** in international systems.
- Innovative solutions are **co-designed, co-implemented and co-owned!**





EUROPEAN UNION

EU MISSIONS

RESTORE OUR OCEAN & WATERS



The All-Atlantic Ocean Research Alliance (AANChOR)

- An inclusive All-Atlantic community of stakeholders
- Science Diplomacy built upon Galway and Belém statements
- 6 Ambitious long-term Joint Pilot Actions
 - All-Atlantic Ocean Capacity Development and Training
 - All-Atlantic Aquaculture Technology & Innovation Platform
 - All-Atlantic Data Enterprise 2030
 - All-Atlantic Blue Schools Network
 - All-Atlantic Marine Research Infrastructure Network
 - All-Atlantic Marine Biotechnology Initiative

An **example** of ONE global collaboration endorsing the charter

ALL-ATLANTIC OCEAN RESEARCH FORUM 2022

31 MAY - 2 JUNE Scientific Event
Brasilia, Brazil

12 - 14 JULY Ministerial Event
Washington D.C., United States of America

ALL-ATLANTIC OCEAN YOUTH AMBASSADORS COHORT 2020-22

Members of the cohort include: Jorge Elisio Lopes Gomes, Hajer Bouzaidi, Aurora Helm, Harriet Dundon, Kelsey Archer Barahall, Kirstin Patzer, Daniele Venturini, Thando Mazomba, Fiona-Elsine Strasser, Elyno Dugéy, Raquel Galbo Silva, Eloise Savineau, Othman Cherkanouf DeKaiki, Marissa Brink-Hall, Louise C. Flensborg, Gary Kett, Raquelina Monteiro, Julia Reimer, Marina Cocazza, Micaela Belén Stange, Daniela Belén Risaro, Julia Biscala Zamoner, Jesslene Jawanda, Theresa Kath, and Jorga Moreno.

www.allatlanticocean.org



How to get involved

- The Mission will **develop and demonstrate innovative technological, social, business and governance solutions**.
- The scope of the Mission combines **new forms of governance** and cooperation and **a new way of reaching out to citizens** and getting them on board, including **young people**.
- **EU and non-EU countries**, regions and a wide range of public and private sector **stakeholders** will also need to get involved, to help ensure we make real impact, together.
- **Each one of us can co-design, co-implement and co-monitor** this Mission by participating in campaigns and other activities.
- Endorse the **Mission Charter**, a commitment to cooperate and align resources and a tool to mobilize stakeholders, gain traction and ensure timely delivery of actions.

Find Your
EU Funding Programme
for the
Environment

*Supporting the environment
under the
2021-2027 multiannual
financial framework and
NextGenerationEU*





Earth observations

- Observing, predicting and monitoring climate change
- Monitoring pollutants and Harmful Algal Blooms
- MPA, Marine spatial planning
- Monitoring of ecosystems, industry, impacts, opportunities
- All GEO Blue Planet activities:
 - Fishing
 - Marine Litter
 - Coastal Flooding
 - Sargassum
 - Eutrophication
 - Oil Spill
 - Climate Adaptation

Digital Twin Ocean



Get onboard!

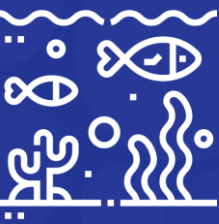
- **Join the commitment to restore our Ocean and Waters**
- **Endorse the Mission Ocean and Waters Charter**
- Reach out to identify synergies to your work
- What stage is your project at, and where would you like it to be?
- Where can we help each other?
- What is the greatest challenge your project faces in development?
- **What is the biggest change you would like to see?**

Questions?

Thoughts?

Discussion? Queries?





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Inspiring
examples

