

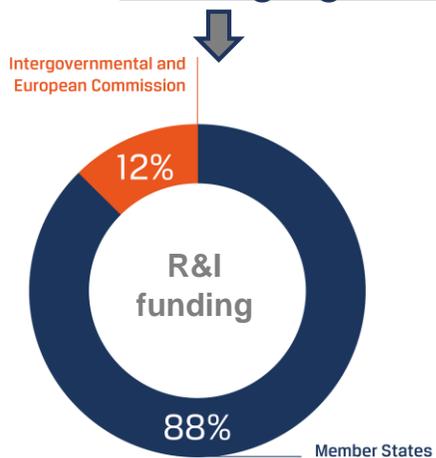
JPI “Healthy and Productive Seas and Oceans” International Cooperation Strategies

Thorsten Kiefer, JPI Oceans





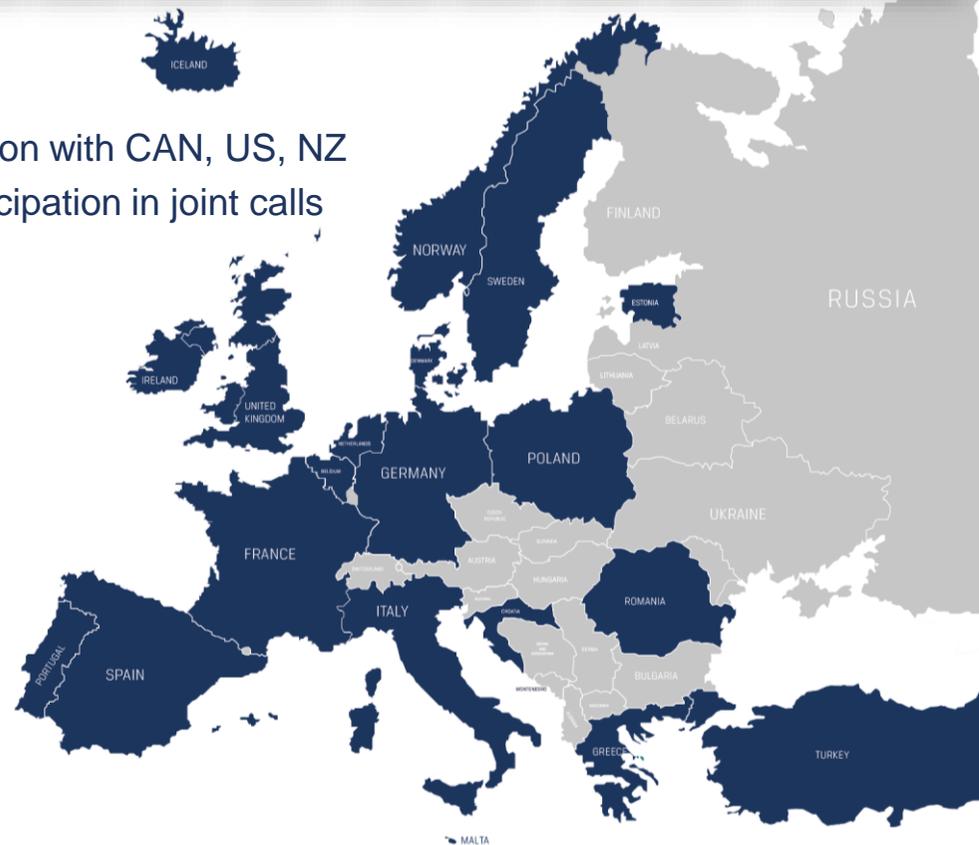
20 member countries, represented by funding agencies and ministries



EU and national policies



+ association with CAN, US, NZ
+ intl. participation in joint calls



Increasing value and impact by ...

- ... aligning national R&I priorities
- ... aligning resources
- ... implementing joint priorities.

- ... informing decision making
- ... helping countries meet their policy obligations.

JOINT ACTIONS in JPI Oceans

ONGOING:

- Ecological aspects of **microplastics**
- Ecological aspects of **deep-sea mining**
- Blue **Bioeconomy** (Cofund)
- **Food** and Nutrition Security (Knowledge Hub)
- European Marine **Calibration** Network
- Marine and maritime **technologies** (Cofund)
- Ocean and **climate** change
- Integrated assessment of **new pollutants** (Knowl H)
- Transdisciplinarity for ocean **sustainability**
- **Munitions** in the Sea
- **Sea Level** - local to regional scale (Knowledge Hub)
- Aquatic **pollutants** (Cofund)
- Underwater **noise** in the marine environment
- Science for **Good Environmental Status**
- Support for European **ocean observing**

UNDER DEVELOPMENT:

- **Cumulative** effects of anthropogenic disturbances

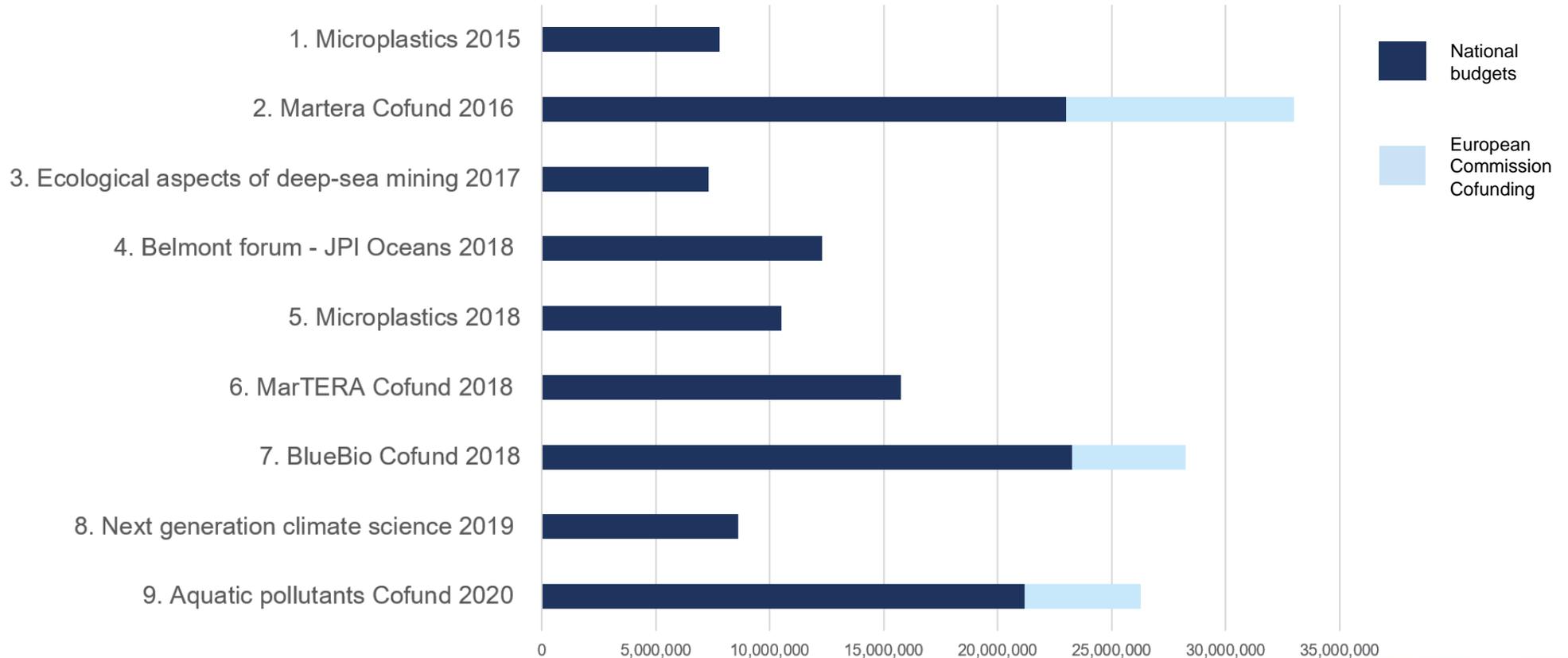
Implementation through:

Calls for project proposals - Infrastructure sharing - Joint data collection and sharing - Support actions

Overview joint calls

Total national pre-call budget: 142 million Euro

Sum of Pre-Call Budget (€) by Call



The happy family of **ten** Joint Programming Initiatives

and their growing array of collaboration grounds:

JPI SRIA
implementation*

*Horizon Europe
Partnerships*

*Horizon Europe
Mission Areas*

***Strategic Research and Innovation Agendas**, usually based on priorities put forward by member states, focusing on societal challenges that cannot be solved at national level

Aquatic pollutants Cofund

Call on risks posed to human health and the environment by pollutants and pathogens present in the water resources.

Call themes:

- **Measuring** – Environmental behaviour of contaminants of emerging concern (CECs), pathogens and antimicrobial resistant bacteria in aquatic ecosystems
- **Evaluating** – Risk assessment and management of CECs, pathogens and antimicrobial resistant bacteria from aquatic ecosystems (inland and marine) to human health and environment
- **Taking Actions** – Strategies to reduce CECs, pathogens and antimicrobial resistant bacteria in aquatic ecosystems (inland and marine)



Timeline:

- Feb 17 2020: Call opening
- May 18 2020: Deadline pre-proposals
- June 2020: Invitations for full proposals
- Aug 14 2020: Deadline full proposals
- Late 2020–early 2021: Project start

Project key figures:

- Approximately 25 million Euro
- 26 countries
- 32 Funding organizations

Associated extra call:

- for *Knowledge Transfer Projects*
- Germany and Sweden
- 1.05 million Euro



Joint call
*“Next Generation Climate Science
in Europe for Oceans”*

Knowledge Hub
“Regional Sea Level Rise”

Both ideas were developed by a
joint Working Group between
JPI Climate & Oceans to explore
the potential for collaboration

Knowledge Hub
*“Food and Nutrition
Security”*



Further potential for Oceans–Water collaboration at land-sea interfaces

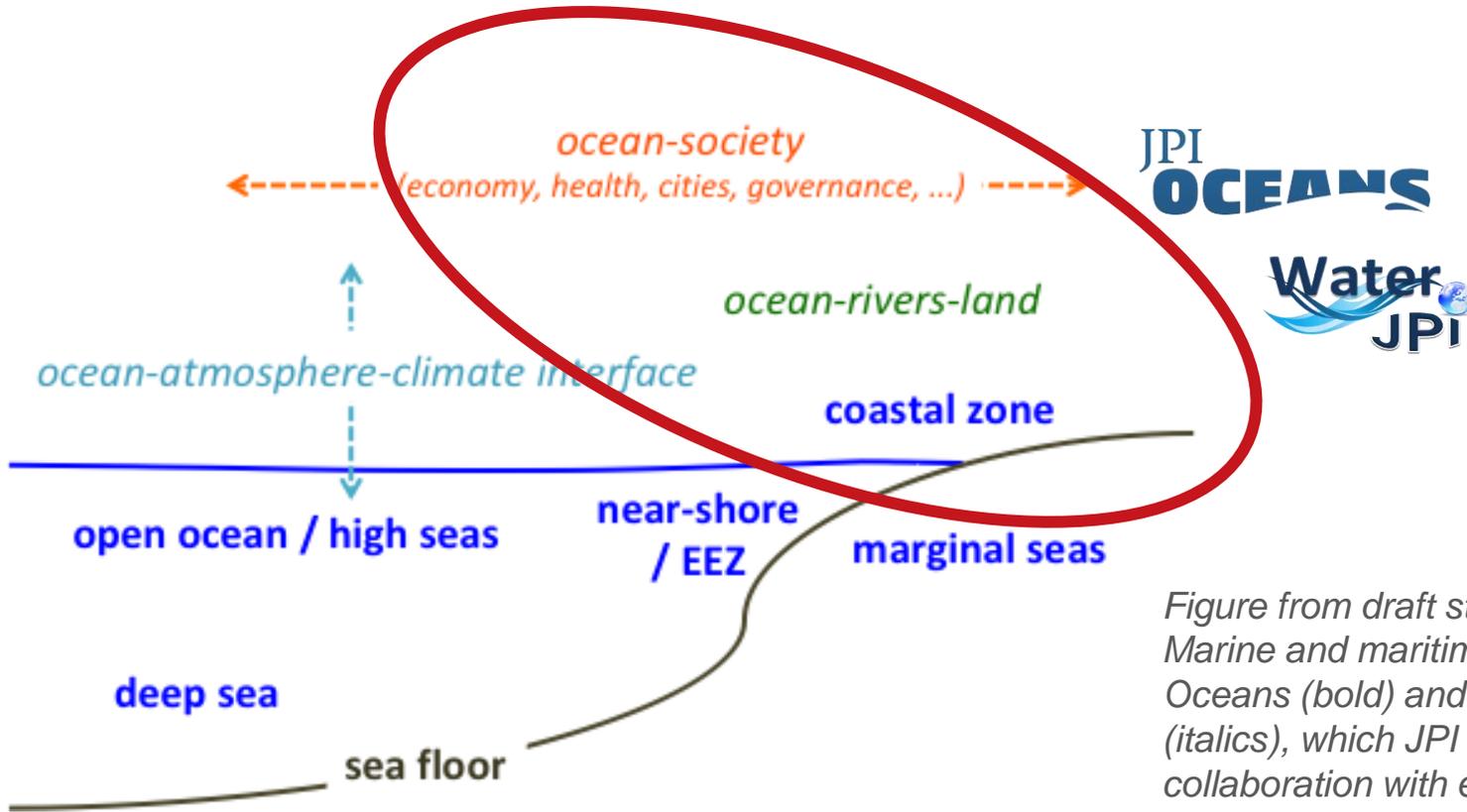


Figure from draft strategy revision of JPI Oceans: Marine and maritime domains addressed by JPI Oceans (**bold**) and interfaces with other domains (*italics*), which JPI Oceans can address in collaboration with external partners.

Further potential for Oceans–Water collaboration at land-sea interfaces

Sea level rise – incl. saltwater intrusion, local subsidence from groundwater extraction



Aquatic pollution – riverine downstream transport of pollutants (plastics, nutrients, new pollutants) to the sea



Coastal zone ecosystem and human health – incl. damming of freshwater and sediment supply; tourism and recreation; eutrophication; biotechnology

Cross-domain transfers – incl. food (aquaculture) and water

Freshwater provision – incl. desalination and groundwater salinisation

Observation – integrated ocean-seas-inland waters monitoring system, e.g. in support of MSFD and WFD

Horizon Europe “blue” Partnership candidates

- A climate neutral, sustainable and productive Blue Economy
- Water4all – Water Security for the planet

- *Hazardous substances, litter (incl. plastics) and eutrophication*
- *Land sea interface*
- *Management of waste products from desalination plants*

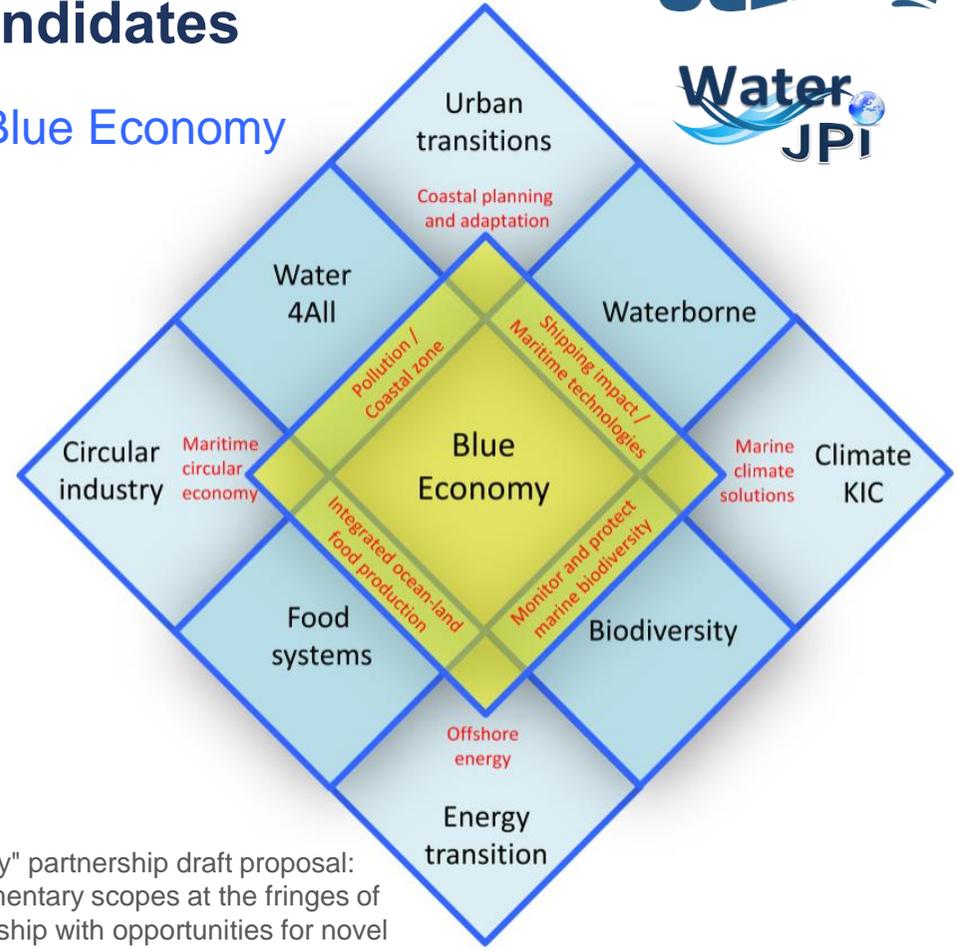


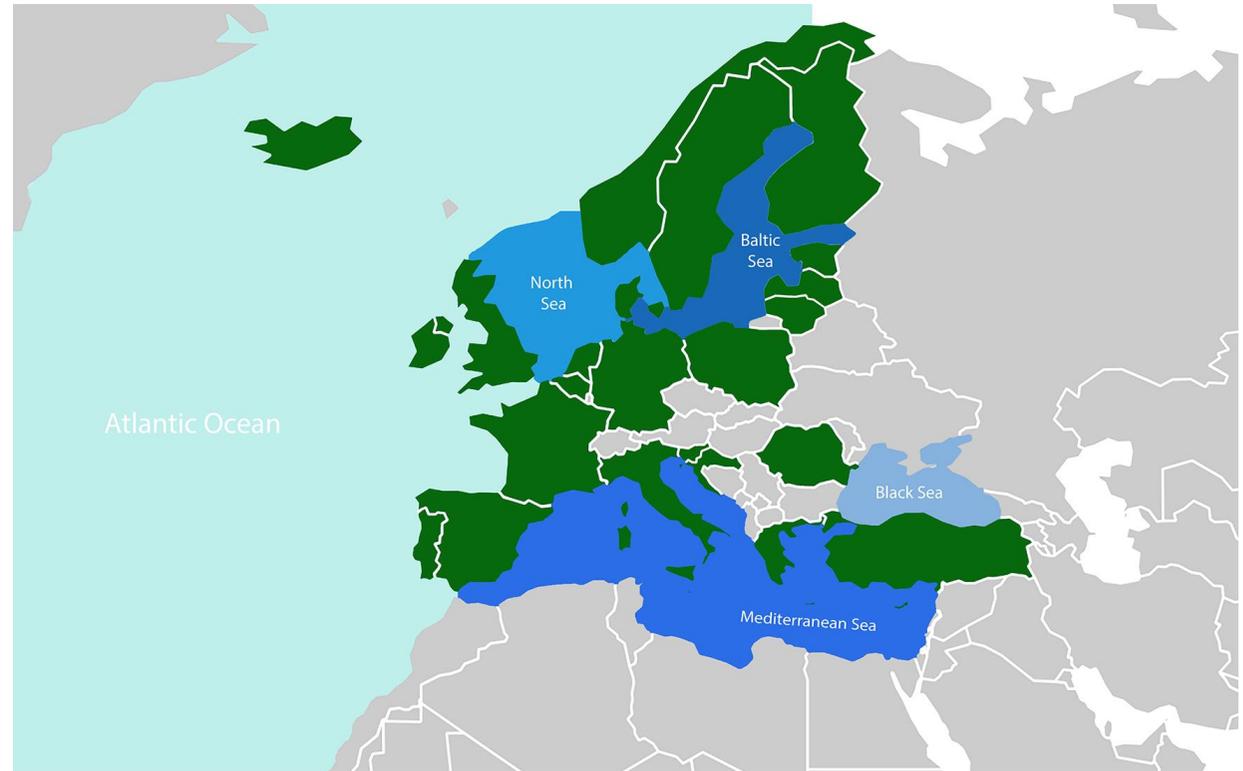
Figure from "Blue Economy" partnership draft proposal: Partnerships with complementary scopes at the fringes of the Blue Economy Partnership with opportunities for novel collaboration across partnerships

Horizon Europe Partnership

A climate neutral, sustainable and productive Blue Economy

Partnership design idea:
Umbrella over existing regional sea and ocean basin initiatives

Related opportunity:
Strengthen international collaboration with countries bordering the sea an ocean basins surrounding Europe



Horizon Europe Mission area

“Healthy oceans, seas coastal and inland waters”



JPI
OCEANS

Water
JPI