



Pier Francesco Moretti
JPI Oceans Secretariat - CNR













"Seas and Oceans" <u>are</u> a complex global challenge

Mission:

JPI O is a <u>Strategic platform</u> for long-term alignment and cooperation in marine and maritime

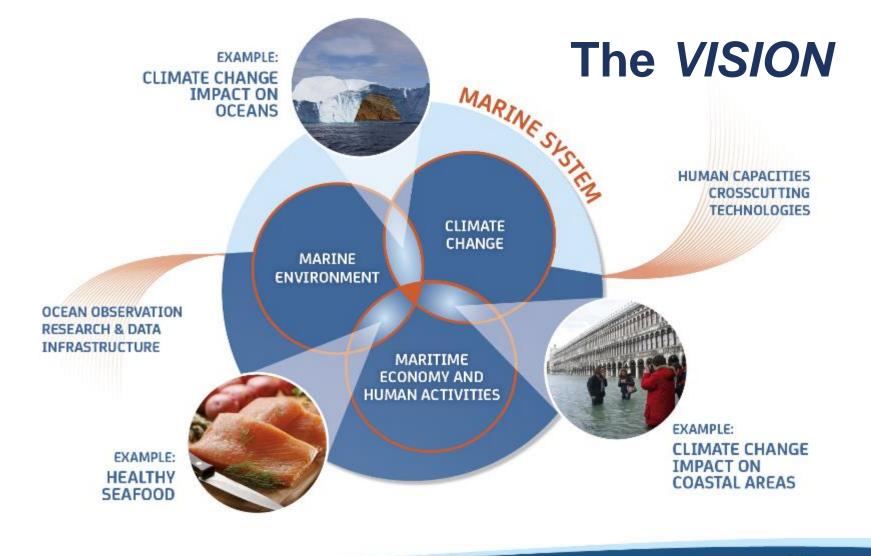
research&innovation funding to increase impact of investments

Vision:

To enable <u>Blue Growth and jobs</u>,
whilst fostering the <u>health and productivity</u> of
seas and ocean and addressing the pressures of
<u>climate change and human impacts</u>
on seas and oceans





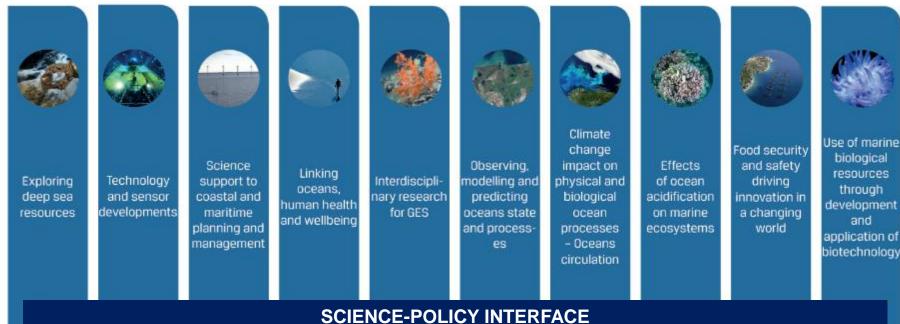


21 Participating countries (+ Outermost regions) with different Ministries

Secretariat is based in Brussels

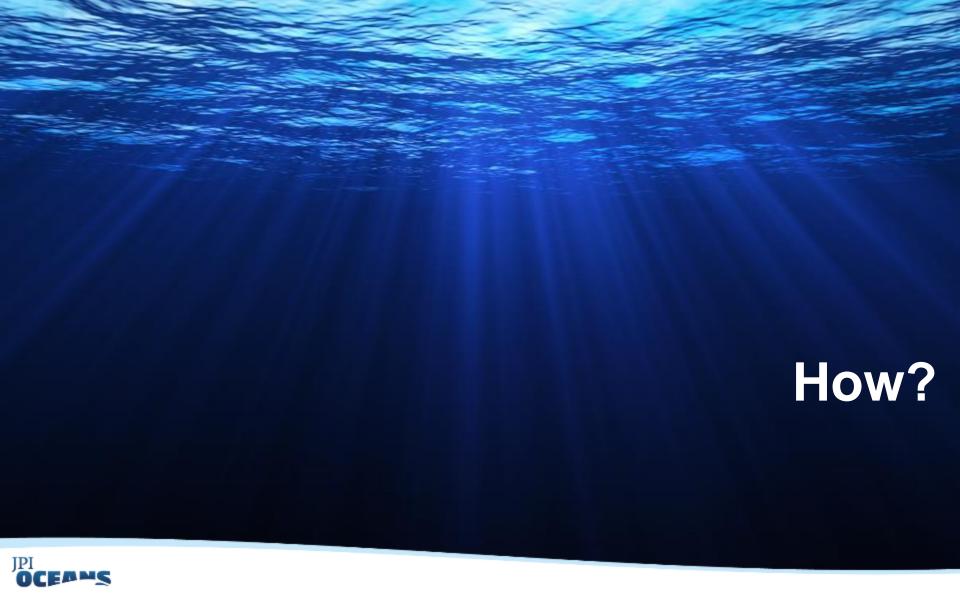


Strategic Research and Innovation Agenda

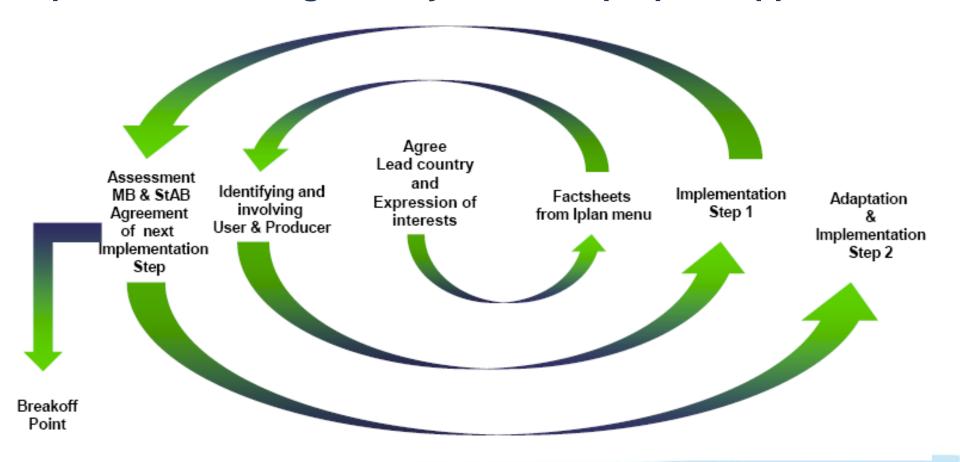


SCIENCE-POLICY INTERFACE
HUMAN CAPACITY BUILDING
INFRASTRUCTURE – SHARED USE AND MANAGEMENT

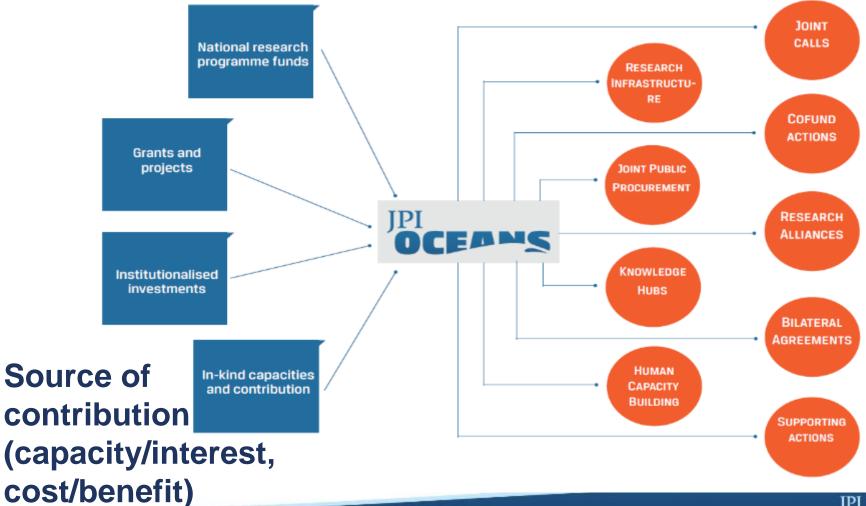




Complexity in sectors, aspects, stakeholders.... requires a variable geometry and fit-to-purpose approach!



Different instruments



In practice, another challenge: many Strategic Research and Innovation Agendas from different "actors" ...to boost economy?







Shopping lists?







Common denominators?





Challenge driven enablers

How to fit for the future? ...shaping the opportunities/framework for a knowledge-intensive economy

- Understanding and protecting seas and oceans
- -Sustainably using of resources from seas and oceans
- Sustainably working and living at sea

```
(Research and technological contribution) ⊗ (feasibility⊗ timescales) ⊗ (impact ⊗ coherency)
```

The "convolution integrated over" fit-to-purpose instruments and actions for variable geometry cooperation and funding



Operationally? From words to facts (actions)...and others to come





- setting up integrated monitoring surveys,
- Cost efficiency (2) enhancing integration of monitoring efforts
- (3) promoting data sharing and integrated information systems.



Ecological Aspects of Micro-plastics

analytical method development for micro-plastic ledge gaple particle research (evaluation for cost-Emerging issuel Emerging radory study Interlaboratory effectiveness and robustness, exploration of improvements to methods)



WFD Intercalibration for coastal + transitional waters

Cost efficient Prove comparability of different assessment methods:

scientific support (1) Joint funding from environmental authorities to reduce fragmentation (2) target expertise towards science-policy interface output



Ecological aspects of deep-sea mining

Campaigns for on-site research on German RV _{Support} Sonne (first cruise in the Pacific in early 2015) _{to economy} open to researchers. Coop ISA new mining code



European Marine sensors calibration network

Setting a structured hub for experts, operators and facilities H, salinity, pCO2 and chlorophyll fluorescence Experiments and standards definitions



Munitions in the Sea

Option assessments for emergencies "Soft" table with operators MSFD/MSP, NATO etc.

Structuring complexity
and bridging
solutions/practices





Martera, Blue Bio-economy ERANET COFUND

Co-funding knowledge and tech



Funding opportunities: open joint calls

Belmont Forum, JPI Oceans & Future Earth 16 million EUR Deadline 31 January 2019

JPI Oceans
Microplastics 2nd
Call
10.5 million EUR
Deadline 28
February 2019

Blue Bioeconomy
Cofund
29.3 million EUR
Pre-proposal
Deadline 17
March 2019

Marter Cofund
Marine and
Maritime
Technologies
15 million EUR
Deadline 29
March 2019

joint calls to come

Next Generation
Climate Science in
Europe for Oceans
Early 2019
with JPI Climate

Food and Nutrition Security Knowledge Hub 29 January 2019 with JPI HDHL and JPI FACCE

Aquatic Pollutants ERA-Net Cofund Late 2019/early 2020 with JPIs Water & JPI AMR JPIO participant countries' public investments in R&I are estimated in 2 G€/year...to be used for developing framework and sustainable concepts, access to data, knowledge, expertise, etc.

Industry is part of the solutions.

We need to ensure multiple use of technologies for science, monitoring and industry needs:

to avoid unnecessary duplications and increase impact.



JPI OCEANS

THANK YOU

JPI Oceans secretariat

To stay updated, subscribe to the JPI Oceans newsletter: www.jpi-oceans.eu/newsletter

Email: info@jpi-oceans.eu

Website: www.jpi-oceans.eu

Twitter: @jpioceans