Joint Programming Initiative
Healthy and Productive Seas and Oceans

‘Ocean meets regions’,
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**Who we are:**
Intergovernmental strategic platform
Covers all European sea basins
21 member countries, Commission as observer.

**Vision:**
Enabling Blue Growth and jobs whilst fostering the health and productivity of seas and oceans and addressing the pressures posed by climate change and human impacts.

Responding to EU and global policies (Maritime, CFP, MSFD, COP21, Agenda 2030)

**Mission:**
Take a long-term approach to marine and maritime research and technology development in Europe, increase impact of investments via alignments and partnerships.
European Council conclusions - 2011

Expectations JPI Oceans

To ensure impact the Council encouraged;

a) analysing the state of the art in this field and identifying and exchanging information on relevant national programmes, research activities and capacities;

b) reinforcing joint foresight exercise and technology assessment capacities;

c) exchanging information, best practices, methodologies and guidelines;

d) identifying areas or research activities that would benefit from coordination or, where appropriate joint calls for proposals or mobilising of resources*);

e) defining the modalities for research to be undertaken jointly in the areas referred to in point (d);

f) ensuring the coordination, and the development of synergies with the existing and future research and innovation schemes in the EU, e.g. the Framework Programme, including the related ERA-Nets and Article 185 initiatives, as well as other related JPIs and European Technology Platforms;
g) sharing, where appropriate, existing research infrastructures or developing in a coordinated way new facilities in particular to support, inter alia, policies based on an integrated ecosystemic approach;

h) encouraging better collaboration between public and private sectors, as well as open innovation between different research activities and business sectors;

i) promoting interdisciplinary approaches and stimulating exchanges and interactions across the marine and maritime sectors;

j) put in place Implementation plan with voluntary guidelines on Framework Conditions

k) exporting and disseminating knowledge, innovation and interdisciplinary methodological approaches;

l) developing appropriate science / policy interfaces on relevant issues such as the implementation of Directive 2008/56/EC (Marine Strategy Framework Directive) and of Maritime Spatial Planning as an essential objective of the Communication on “An integrated Maritime Policy for the European Union”.

m) creating networks between centres dedicated to research on seas and oceans.
From investment in research and technology to innovation and policy evidence in JPI Oceans – Modalities of work

- Identify the mission from the outset

- Identify and engage the producers and users of the knowledge development, to ensure relevance and uptake

- Identify bottlenecks – and a flexible approach to address these:
  - With differing and appropriate tools
  - Be adaptive – allow actions to evolve and adjust after each step to ensure relevance and cost efficiency

- Identify appropriate level EU vs. national or local –
  - identify added value – transaction costs vs. benefits (Intervention logic)
  - Partnerships to ensure impact

- Build in outreach and dissemination activities.
Strategic Research and Innovation Agenda – 10 strategic areas

Exploring deep sea resources
Technology and sensor developments
Science support to coastal and maritime planning and management
Linking oceans, human health and wellbeing
Interdisciplinary research for GES
Observing, modelling and predicting oceans state and processes
Climate change impact on physical and biological ocean processes - Oceans circulation
Effects of ocean acidification on marine ecosystems
Food security and safety driving innovation in a changing world
Use of marine biological resources through development and application of biotechnology

Science/policy/infrastructure/human capacity/data
JPI Oceans ongoing and future activities in practice

- Intercalibration for the Water Directive - Impact; Legally binding regulations, comparable obs.
- Oceans Obs. Calibration network - Impact; Comparable obs, equipment, traceability
- Munitions in the Sea - Impact; Knowledge for detection, monitoring removal
- Marine and maritime technologies - Impact; Cross sectoral technology applications
- Microplastics research projects - Impact; Knowledge to inform policy, awareness
- Blue Bioresources - Impact; New/improved value chains and products
- Impacts of deep sea mining - Impact; Knowledge to inform governance (ISA)

- Scientific knowledge for Marine Spatial Planning
- Integrated Assessment of Effects of New Pollutants
- Ecosystem Goods and Services for Coastal and Marine Waters
- Cumulative Effects of Human impacts
- Climate change
- Acidification…
- ….
Example

MarTERA 30 million euro first call (2017) partnership with the European Commission DG RTD H2020

- Environmentally friendly maritime technologies
- Development of novel materials and structures
- **Sensors, automation of blue economy**
- Advanced manufacturing and production
- Safety and security

Implications for Innovation and Skills
Strategic links to dedicated research initiatives and networks - BONUS; BlueMED, AORA (Atlantic), Black Sea

Regional conventions - engage with our expert groups to develop actions – e.g. cumulative effects

Exchange knowledge and practice between regions on shared challenges – e.g. munitions in the sea, north sea pilot action on multiuse of infrastructures for monitoring

Promote innovation – industry, clusters

Explore ways to join up funding for R&I, national, structural funds, EEA grants

Open to suggestions...........