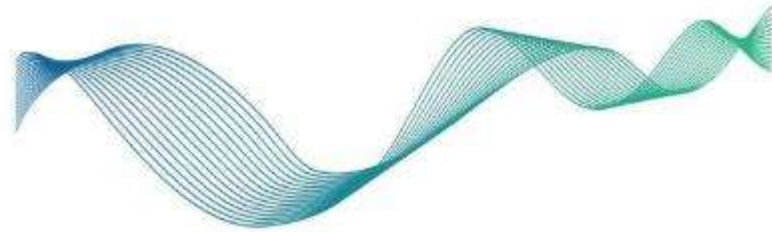


MarineBiotech



W E L C O M E !

«Oceans of opportunities»

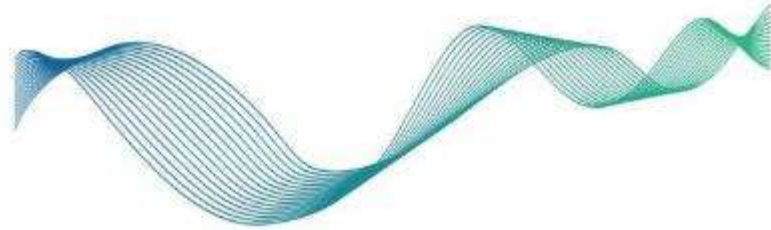
Final conference ERA-NET Marinebiotech



Marine Biotechnology ERA-NET (ERA-MBT) is funded under the European Commission's Seventh Framework Programme. Grant Agreement Number 604814
December 2013 - November 2017

Event name

MarineBiotech



The ERA-NET MarineBiotechnology project (2013 – 2017)

Background and main achievements

Steinar Bergseth (Coordinator)



Marine Biotechnology ERA-NET (ERA-MBT) is funded under the European Commission's Seventh Framework Programme. Grant Agreement Number 604814
December 2013 - November 2017

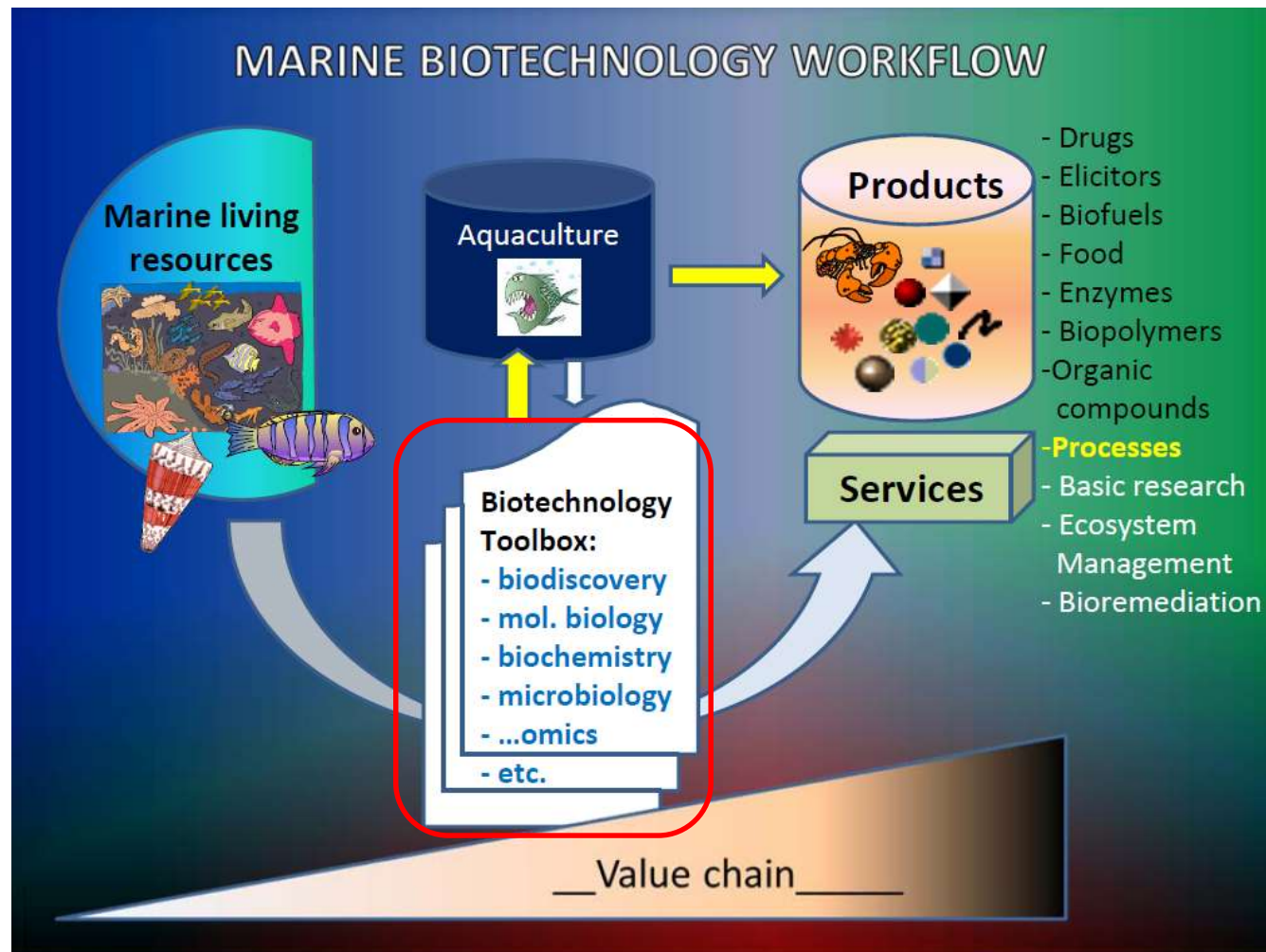
What is Marine Biotechnology?



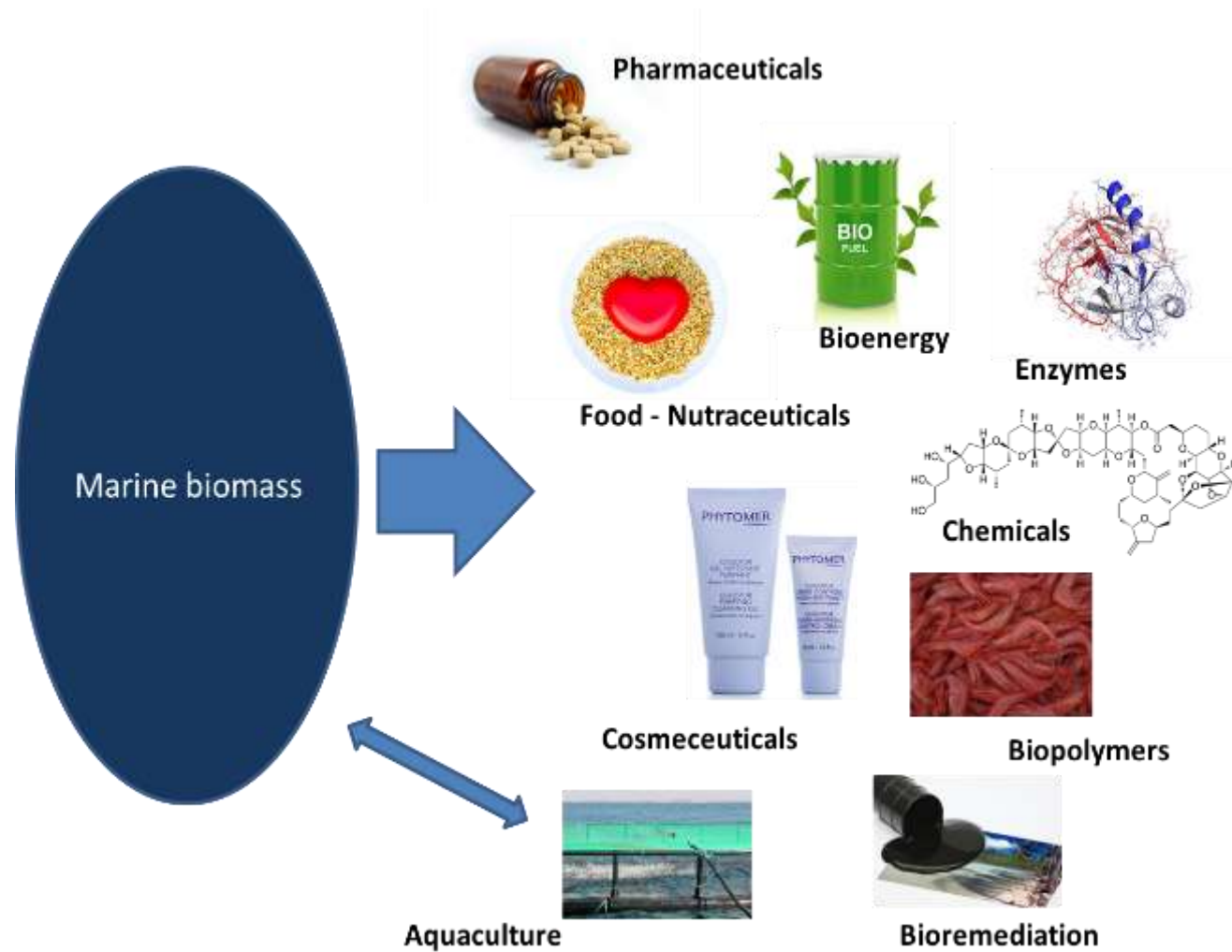
... the use of marine bioresources as the target or source of biotechnology applications



The potential



New possibilities...

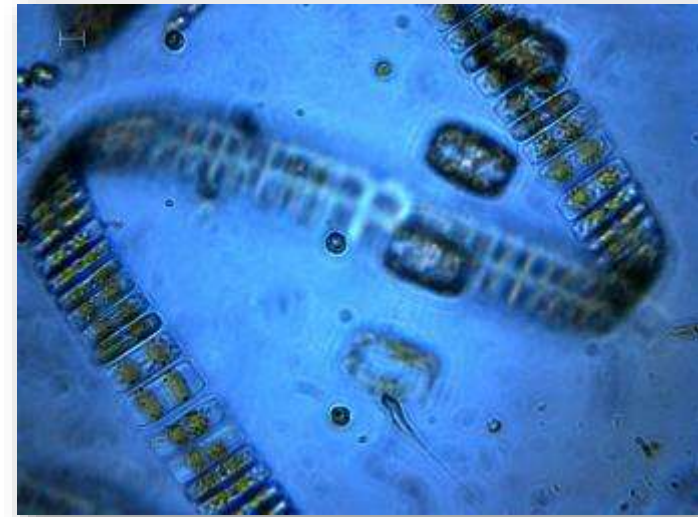


Why MarineBiotech?



- Europe's sea basins have an immense biodiversity supporting society's needs.
 - These resources are:
Underexplored, Understudied and Underexploited

- ***Biotechnology needed to go marine!***
 - To sustainably develop:
 - The (blue) bioeconomy
 - The understanding of marine ecosystems
 - New technologies
 - Societal requirements (ethics, responsibility, openness)



Navicula vanhoeffenii
MabCent, Tromsø

MarineBiotech across Europe

- **Disparity between approaches**, focus and mechanisms by which various European countries (and regions) support marine biotechnology research activities
 - Few dedicated strategies, research plans and/or programs.
 - Support for MBT mostly under wider biotechnology or marine science plans and programs or both.
 - Limited number of dedicated strategies & funding programs.
 - High level of fragmentation of activities and infrastructures.
- **At pan-European level**
 - Marine Board (PP4&15) and CWG-MBT scoping document provided vision, strategy, research priorities and first set of areas of common interest among a number of European Countries (2009 / 2010)
 - Blue Growth focus from the EU-Commission
 - JPI-Ocean established (2011)



International

- **CIESM:** Strategic analysis of marine biotechnology potentials of Mediterranean states.
- **OECD:** Establishment of a Global Forum and working group on marine biotechnology.
- **USA:** Strong public and private investments in algal biofuels, biodiesel and biogas.
- **Canada, Chile, Norway:** Salmon molecular aquaculture & MBT cooperations (Canada - ERA-MBT).



Stakeholder recommendations

1. Ensure active participation of stakeholders in the ERA-MBT activities.
2. Take an industry-academic collaborative approach, with appropriate industry involvement.
3. Continue mapping of the European marine biotechnology landscape.
4. A central component of the ERA-NET MBT must be dedicated to communication, outreach and give access to relevant information.
5. Mobilize a broad European Marine Biotech research community.
6. Organize a series of thematic workshops and support training activities.

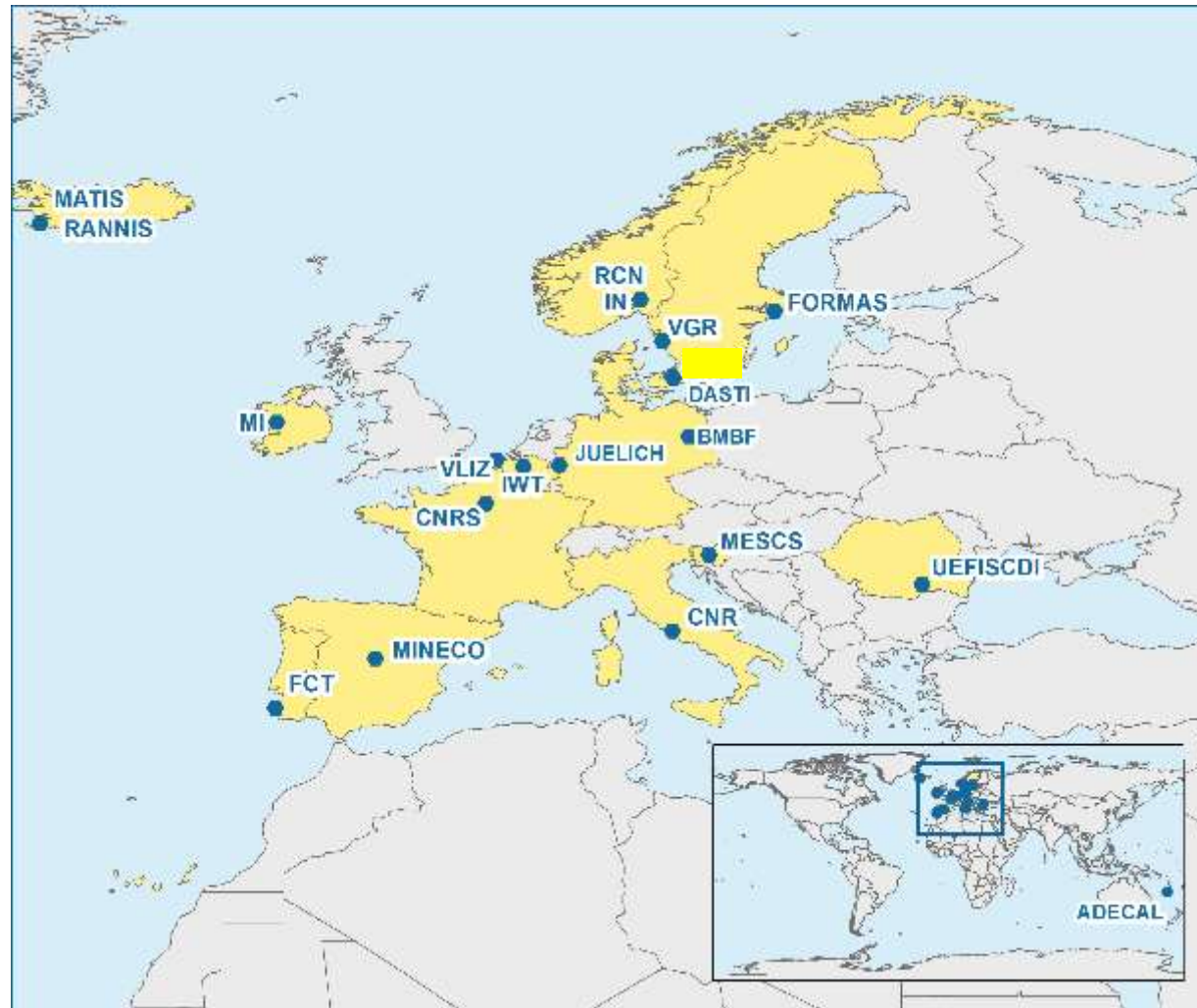
The ERA-NET MarineBiotech



**19 partners in
14 countries**

www.marinebiotech.eu

ERA-NET logistics



The International Advisory Group

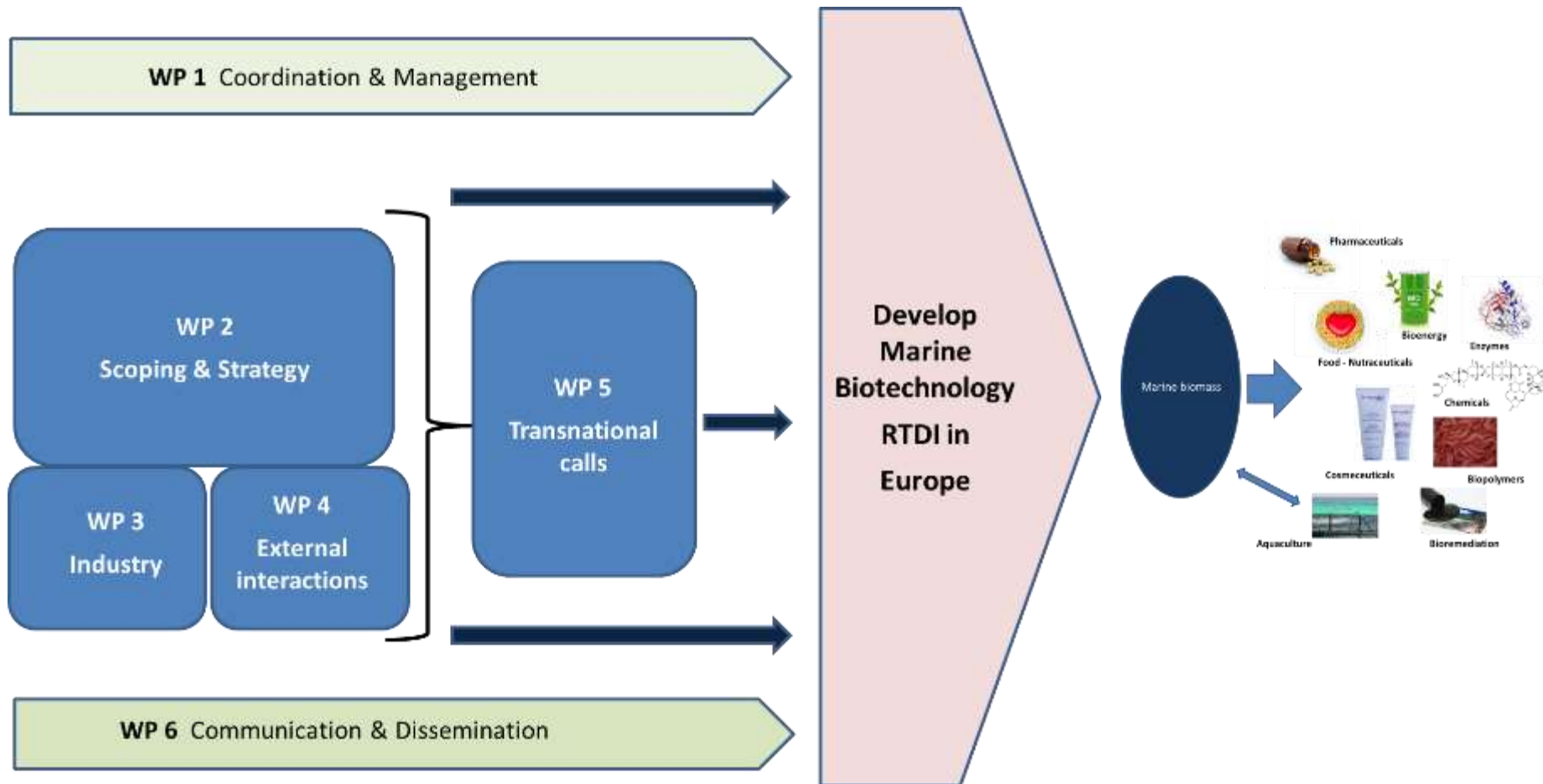
***An expert group providing strategic guidance and advice,
working from different perspectives (science, policy, industry)***

The International Advisory Group (IAG) served as ERA-MBT's "think-tank" and as a reference point for strategic initiatives undertaken by the ERA-MBT consortium.

Providing strategic guidance and advice, the IAG has been involved in ERA-MBT over the life-time of the project and the implementation of ERA-MBT.



The work...



December 2013 → November 2017

External interactions

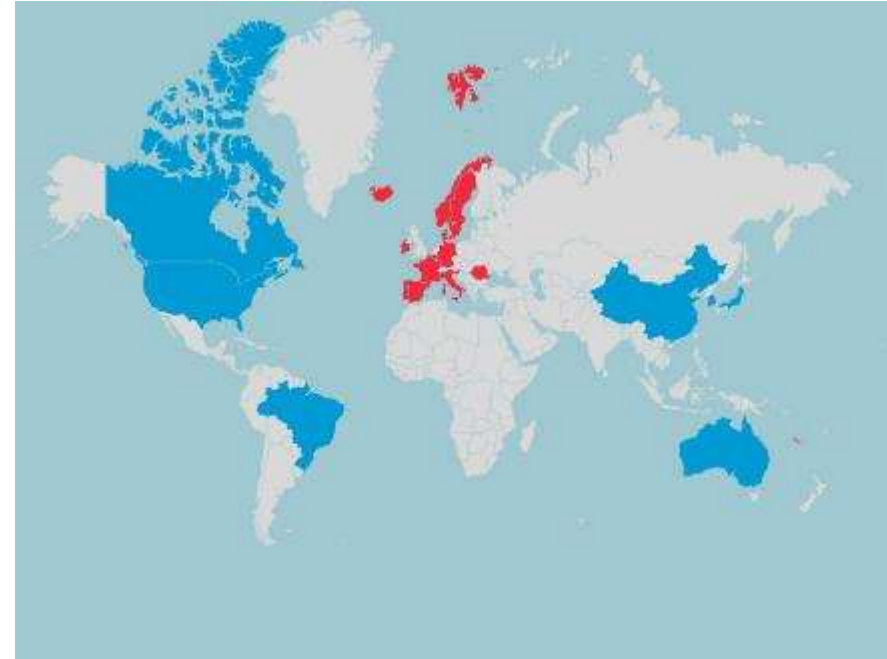


7 countries are highly active in MBT and interesting for closer contact and possible cooperation:

- *Canada, USA, Brazil, China, Japan, Rep. of Korea, Australia*

EU mechanisms for cooperations:

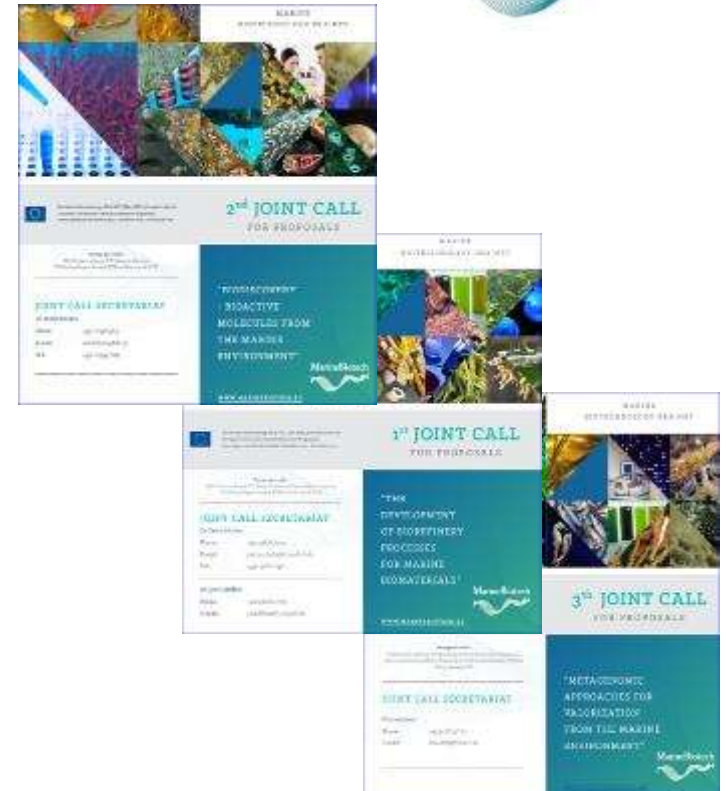
- *PLATFORM, other ERA-NETs, JPIO, EMBRC, ELIXIR, ...*



The 5 transnational calls

- **The 3 ERA-MBT calls**

- Biorefinery processes
 - 6 funded projects (8,5m€)
- Biodiscovery
 - 5 funded projects (6m€)
- Metagenomics
 - 5 funded projects (6m€)



- A joint call with ERA-NET COFASP (fish breeding & seafood processing)
- A joint call with ERA-NET IB2 (systems- & synthetic-biology)

Communication & Networking

- Web page with visual identity & MBT portal
- Stakeholder meetings
 - Faro, Lisbon, Copenhagen, Brussels, Oslo
- Training
 - <http://www.marinettraining.eu/>
An open-source service for training within marine disciplines (also MBT) developed in the framework of the EMBRC activities.



The way forward – key action areas

- **Strengthen the use and development of new, advanced methods**
(the omics toolbox integrated with metagenomics and bioinformatics)
- **Enhance industry interaction and investment**
(create PPPs with biotech as an enterprise enabler)
- **Integrate expertise and access to infrastructures and e-infrastructures**
(establish pilot plants transdisciplinarity)
- **Tailor marine graduate training**
(develop the right skillsets for attractive careers)
- **Increase policy awareness and public literacy**
(understand the societal value of marine biomass)
- **Expand the exploration of our seas and ocean**
(understand the biodiversity and its potential)
- **Further engage marine scientists and biotechnologists in sustainable ocean governance**
(ensure sustainability, regulations and implementations in active dialogues with stakeholders)



The partners

