

2ND SUBMARINER Conference

**Better
off Blue**

#BetterOffBlue17

Creating synergies for a biobased society

Better off Blue conference declaration

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16.10.17

#BetterOffBlue17

SUB MARINER

Since its founding in 2014, the SUBMARINER Network family has been continuously growing. It currently has 24 network members, representing all Baltic Sea Region countries. The network includes both public and private sector organisations, and reaches out to many more actors both within and beyond our project partnerships.

ROADMAP 2013

Roadmap setting out vision and defining necessary actions to reach this vision.



THE IDEA 2010

The project SUBMARINER (2010–2013) assessed, for the first time, the potential for innovative and sustainable uses of Baltic marine resources. It developed the idea for the network.

COMPENDIUM 2012

Compendium assessing potential for innovative and sustainable uses of marine resources in the Baltic Sea.

Combination with
Offshore Wind Parks

Sustainable Fish
Aquaculture

Macroalgae
Harvesting
and Cultivation

Large-scale
Microalgae
Cultivation

Mussel Cultivation

Reed Harvesting

Blue Biotechnology

2017 SUBNET CONFERENCE DECLARATION

The 2nd SUBMARINER Conference 'Better off Blue', hosted in Berlin on 27th–28th September 2017, marks another milestone.

OUR VISION 2030

The Baltic Sea Region –
a bio-based innovation
showcase

NETWORK 2014

Foundation of the
SUBMARINER Network
for Blue Growth EEF

2016 ROADMAP STATUS REPORT

Better off Blue



ALLIANCE



Baltic Blue Growth

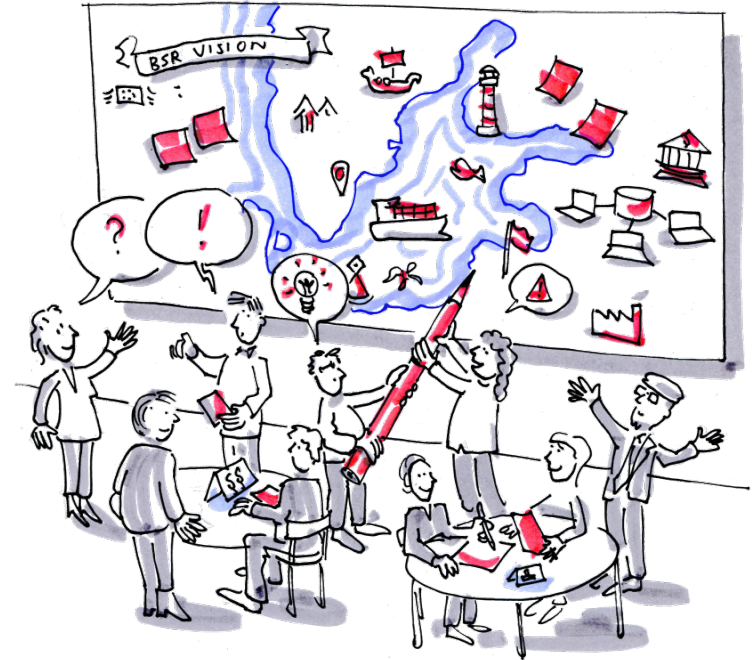


Towards a blue growth implementation strategy



Better
off Blue

- Where are we today?
- What are key challenges and drivers?
- Where do we want to be in 2030?
- What needs to be done – and by whom?



Developing an IMPLEMENTATION STRATEGY for the Sustainable Blue Growth Agenda for the BALTIC SEA REGION

BLUE BIOECONOMY

REGULATION

- We need a FAVOURABLE Regulation Framework!
- Develop a COMPENSATION SYSTEM for Ecosystem Services
- One Stop Shop Licensing for Blue Bio Businesses!

REGULATION

- Adapt FOOD REGULATION
- NUTRIENT TRADING platform
- HARMONISE COMPENSATIONS
- AGRI Culture
- AQUA Culture
- HARMONISE & ALIGN EU-Directives to HELCOM CS 1972

HARVESTING

- WILD SEAWEED from beaches avoid smell
- Local productions
- Job opportunities
- Empower Tourism
- Reduce CO₂ & Nutrition load

MUSSELS

- Increase Water QUALITY
- High PROTEIN Products for both HUMANS & ANIMALS
- SEAWEED/MACROALGAE
- Improve HARVESTING TECHNOLOGIES Automation

FINANCING & FUNDING

- SCALE-UP to critical mass and attract the RESOURCES!
- DEVELOP a FUNDING SCHEME for BLUE BIO INNOVATION (Similar to the EIP AGRI Scheme)
- Engage & BIG ENTERPRISES to ensure PRIVATE FINANCING
- COMMERCIALIZATION SUPPORT (AGENTS) for SMEs (Pilot projects)
- "Tell the Blue Bio Business" Story
- Attract CROSSBORDER INVESTMENT
- Learn from other Sectors
- Efficiency & SUSTAINABILITY IMPROVE CONVENTIONAL SYSTEMS
- SCALE INFRASTRUCTURE
- JOINT BSR TEST BEDS
- Integrating Blue Bio Economy in ENVIRONMENTAL EDUCATION

FINANCING & FUNDING

- Develop LOCAL Micro funding Schemes
- GOOD Environmental status of MARINE WATERS
- EUROPEAN COMMISSION

CLOSE THE LOOP !!

- Develop LOCAL Micro funding Schemes
- GOOD Environmental status of MARINE WATERS
- EUROPEAN COMMISSION

BLUE BIOMASS PRODUCTION

- SEAWEED/MACROALGAE
- Fucellaran (E402)
- Marine AQUACULTURE
- FISHFARMING: New Industry (+7%/year since 1970) relatively ecological resource of proteins but: not possible without any any footprint => "ENVIRONMENTAL ROOM"
- Test novel INTEGRATED AQUACULTURE Systems under BALTIC SEA CONDITION
- Improve EFFICIENCY of RAS Systems through TRAINING & KNOWLEDGE TRANSFER & TECH. IMPROVEMENTS

GREENHOUSE PRODUCTION

- MICROALGAE
- Optimizing the BIOPROCESS
- Making MORE from LESS

FRESHWATER AQUACULTURE

- TRADITIONAL MODEL FISHFARM
- HIGH RECIRCULATION AQUACULTURE SYSTEM (RAS)
- Recirculate 80-95%
- Competition of Fossil Products!
- Reliable ANALYTICAL Methods
- Non-destructive Fractionation Methods
- s.Pro ECORYS

INCREASE VISIBILITY

- Policy Makers
- Investors
- Consumers
- Media
- MARKETING
- COMMERCIALIZATION & MARKETING
- NETWORKING between companies/NGOs/Gov Bodies
- BLEUV LOBBY Group
- Marketing Campaigns
- Consumers Retail
- Integrating Blue Bio Economy in ENVIRONMENTAL EDUCATION

BLUE Bio-based PRODUCTS

- High Value NUTRIENTS
- COSMETICS
- PHARMACEUTICALS
- FOOD PROTEINS
- Fertilizers
- COMMODITY FEED
- BIO GAS
- CONSUMERS

BLUE BIOTECHNOLOGY

- GREEN Processes
- 1163 known COMPOUNDS
- 70 Products in Production on the Market
- Bring BIOBASED products to the market!
- Infrastructure to Scale-up!
- KTH
- CHRISTIAN RIDDER www.BUSINESS-AS-USUAL.COM

Conference declaration

- Response to **blue growth implementation strategy**
- Network members' position to:
 - On-going **support services**,
 - Priorities for specific **new actions and initiatives**,
 - **Broadened scope of topics.**



Acknowledgements



- Substantial **funding and financing opportunities** made available,
- Need to **better align and coordinate available funding instruments**,
- Efforts to **synthesize results and findings** of on-going projects and initiatives.

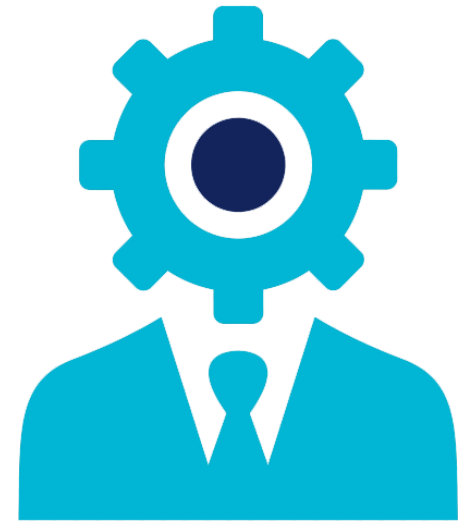
Ultimate aim



- Increase number and impact of blue bioeconomy **demonstrators**,
- Installing **test sites**,
- Scaling up from pilot to **fully commercial scale**.
- Examples: novel forms of aquaculture, blue biorefineries, monitoring technologies

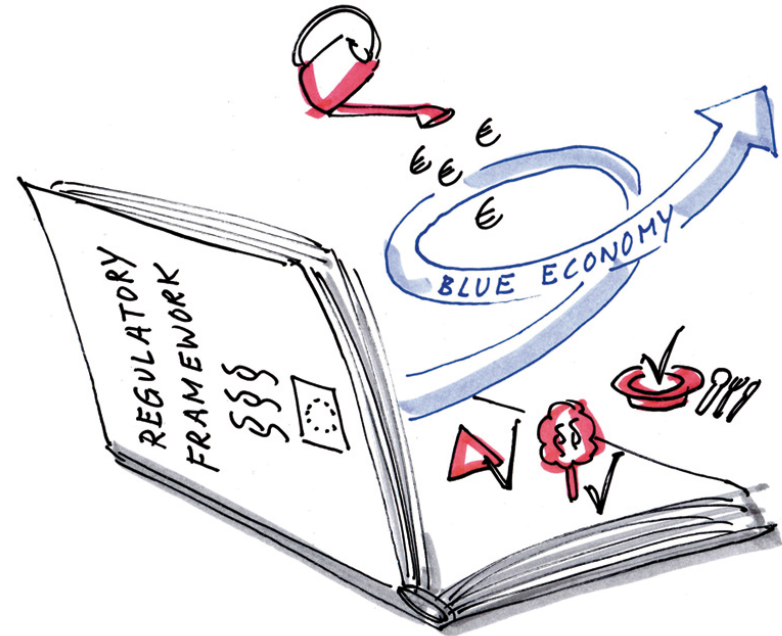
On-going support services

- Pan-Baltic **coordination and communication** platform – create synergies / initiatives
- Targeted **matchmaking** between projects & actors – also along value chain
- **Voice of BSR blue bioeconomy actors** in Europe & beyond;
- Continue to provide successful **support services** to create blue success stories: **business, IP, pitching events, mentoring programmes, technology transfer.**



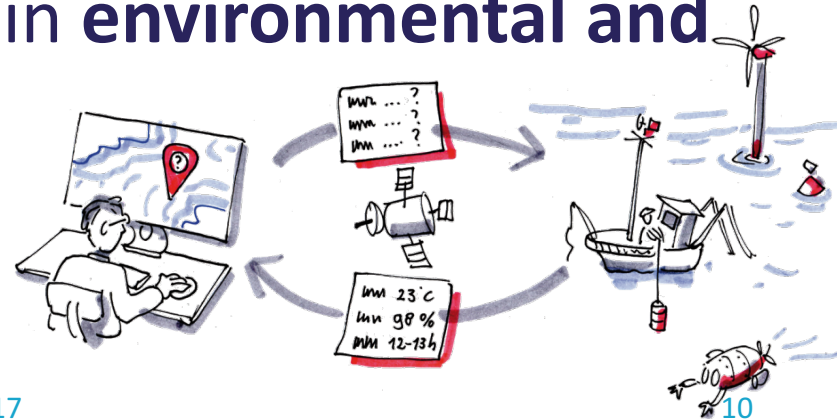
Overcoming regulatory barriers

- Create multi-disciplinary **advisory group** for developing **policy recommendations**;
- Develop & test **economic incentives** for provision of **ecosystem services** by blue biomass production,
- Revise and strengthen **certification labels**.



Data and information needs

- Sufficient body of **data on Baltic Sea resources** prerequisite for well-grounded decisions,
- Pan-Baltic **mapping of blue bioeconomy actors' data and information needs**,
- Make use of BSR potential in **environmental and monitoring technologies** and **data analysis tools** - create system test areas.



Awareness raising and marketing



- Joint effort of the blue sector to **communicate environmental, societal and health benefits,**
- Large-scale **professional awareness raising and marketing** initiatives,
- Create **cooperative structures** to reach critical mass & create synergies.



Broadening the scope of topics



- Strengthen **cooperation** with other actors: monitoring technology, ports, tourism, cultural heritage, marine litter, forestry & agriculture
- Make use of other processes: **maritime spatial planning** / foster combinations
- Strengthen and increase **capacity development and recruitment** programmes.

Join us on our journey!

Better
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Conference organisers:



in the framework of:



Baltic Blue Growth

Co-organiser:



in the framework of:



In cooperation with the following SUBMARINER Network projects:



EUROPEAN
REGIONAL
DEVELOPMENT
FUND



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With the kind support of:



A European Biotech Week event

