

GRASS project

- unlock the potential of macroalgae as a sustainable biomass in the Baltic Sea Region

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Mem



S&E Sea and Environment



KALMAR
SUNDS
KOMMISSIONEN



METAL
PRODUCTION
Subsea & offshore concepts to reality

oceanBASIS
sea.science.solutions.



GÖTEBORGS UNIVERSITET



Flagship of:



SUB MARINER

Since its founding in 2014, the SUBMARINER Network family has been continuously growing. It currently represents the private sector of many member states and our project.



ROADMAP 2013



COMPENDIUM 2012



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.

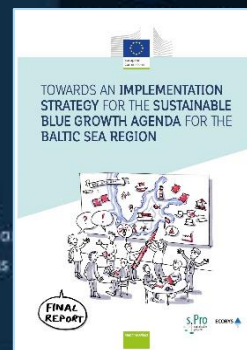
NETWORK 2014

Foundation of the SUBMARINER Network for Blue Growth EEIG



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 biobased innovation showcase

2016 ROADMAP STATUS REPORT

SUBMARINER topics 2019

Macroalgae harvesting and cultivation



Mussel Cultivation



Reed & Beach Cast



Marine Cultural Heritage



Blue Bio-technology



Marine Litter



Sustainable Fish Aquaculture



Combinations with Offshore Wind Parks



strategic action fields

Actors & Match-Making



Data & Tools



Sub-regional activities



Access to Pilot sites & facilities



Training & Capacity Raising



Technology Transfer



Finance & Funding



Regulation



Awareness& Marketing



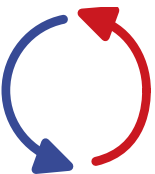
vision 2030



A smart Baltic Sea Region – making use of blue-green combined solutions



Maintaining the Baltic Sea Region's natural capital



Marine resources as part of the BSR sustainable energy and biomass portfolio



Improve human well-being via new marine products



The Baltic Sea Region – a biobased innovation showcase

Taking action via projects (2016-2019)

Baltic Blue Biotechnology Alliance

Advancing marine bio-based product development



InnoAquaTech

Cross-border development & transfer of innovative and sustainable aquaculture technologies



Baltic Blue Growth

Initiating full scale mussel farming in the Baltic Sea



Baltic RIM

Baltic Sea Region Integrated Maritime Cultural Heritage Management



SmartBlue REGIONS

Smart Specialisation and Blue Growth in the Baltic Sea Region



MUSES

Exploring the opportunities for Multi-Use in European Seas



Taking action via projects (2019-2021)

Blue Platform

Capitalization on transnational blue bio economy project findings and capacity building



GRASS

Capacity building of public authorities on supporting macroalgae production and use



Blue Generation

Inspire and engage with young people to pursue a sustainable career within Blue economy sectors



Alliance+

Operationalising the innovation platform and mentoring programme for Blue Biotech SMEs



UNITED

Demonstrating Multi-Use in Atlantic, North and Baltic Sea



Capacity4MSP

Strengthening the capacity of MSP stakeholders and decision makers



Baltic Blue Biotechnology Alliance

Advancing marine bio-based product development

1 3 4 5 6

Baltic RIM

Baltic Sea Region Integrated Maritime Cultural Heritage Management

1 3 5

MUSES

Exploring the opportunities for Multi-Use in EU Seas, including the scope for innovation and Blue Growth potential

1 2 3 4

InnoAquaTech

Cross-border development & transfer of innovative and sustainable aquaculture technologies

1 4 5 6

Smart Blue Regions

Smart Specialisation and Blue Growth in the Baltic Sea Region

1 2 3 4 5 6

Baltic Blue Growth

Initiating full scale mussel farming in the Baltic Sea

1 2 3 4 5 6

Capitalizing on 80+ Outputs

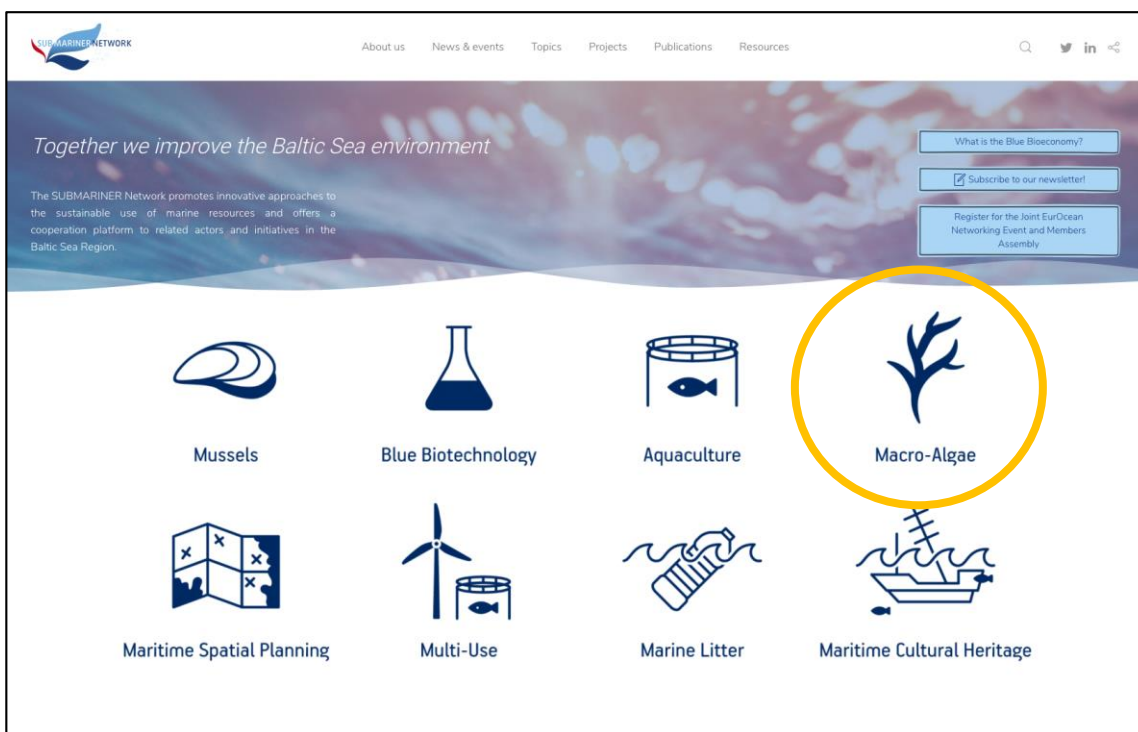
Blue Platform

Capitalization on transnational blue bioeconomy project findings and capacity building

1 2 4 5 6

<https://www.submariner-network.eu>

- Reports, data, guidelines, tools, training material, projects, links
- Events, Workshops
- Study tours
- News, opinions
- 'Who is who' – members, incl. business corner
- Match-making / cooperation requests
- Training opportunities, summer schools
- Newsletter service
- Closed section for members



SUBMARINER Newsletter

GRASS project



- 1. January 2019 - 30. June 2021
- LP: Fredrik Gröndahl, Royal Institute of Technology (KTH), Sweden
- Total budget 1.95 million€
- 10 partners from 7 BSR countries
 - 4 PAs [Estonian ministry of Environment, SYKE (Finnish Ministry of Environment, Kurzeme Planning Region, Blue Center Gotlant (UppsalaUni)]
- 15 Associate partners



Partners involved

PP 1 - Royal Institute of Technology, KTH (SE)

PP 2 – SUBMARINER Network for Blue Growth EEIG

PP 3 - Finnish Environment Institute, SYKE

PP 4 - National Marine and Fisheries Research Institute,
NMFRI (PL)

PP 5 - University of Turku (FI)

PP 6 - Latvian Institute of Aquatic Ecology, LIAE

PP 8 - Republic of Estonia Ministry of the Environment

PP 9 - Kurzeme Planning Region (LV)

PP 10 - Uppsala University (SE)

PP11 – Baltic Fund for Nature (RU)



Associated Organisations

Associated Organisations

Role	Organisation (English)	Organisation (Original)	Country	Organisation Type
AO 1	The Municipality of Guldborgsund	Guldborgsund Kommune	 DK	Local public authority
AO 2	Est-Agar AS	Est-Agar AS	 EE	Small and medium enterprise
AO 3	Republic of Estonia Ministry of Rural Affairs	Maaeluministeerium	 EE	National public authority
AO 4	The Regional Council of Southwest Finland	Varsinais-Suomen Litto	 FI	Regional public authority
AO 5	The Finnish Ministry of the Environment	Ympäristöministeriö	 FI	National public authority
AO 6	Centre for Economic Development, Transport and Environment	Eiinkeino-, liikenne- ja ympäristökeskus	 FI	Regional public authority
AO 7	The Finnish Ministry of Agriculture and Forestry	Maa- ja Metsätalousministeriö	 FI	National public authority
AO 8	The Swedish Institute for the Marine Environment	Havsmiljöinstitutet	 SE	Higher education and research institution
AO 9	Algoritm Ltd.	Algoritm Ltd.	 LV	Small and medium enterprise
AO 10	The Ministry of Maritime Economy and Inland Navigation of Poland	Ministerstwo Gospodarki Morskiej i Żeglugi Śródlądowej	 PL	National public authority
AO 11	Competence Network Aquaculture of the federal state Schleswig-Holstein	Kompetenznetzwerk Aquakultur des Landes Schleswig-Holstein	 DE	Business support organisation
AO 12	John Nurminen Foundation	John Nurmisen Säätiö	 FI	Interest groups including NGOs
AO 13	Liepaja University	Liepājas Universitāte	 LV	Higher education and research institution
AO 14	Maritime Office in Gdynia	Urząd Morski w Gdyni	 PL	National public authority
AO 15	POLICY AREA INNOVATION	POLICY AREA INNOVATION	Other	EGTC

GRASS project key objectives

- GRASS seeks to **enhance the capacity of public authorities to unlock the potential of macroalgae as a sustainable biomass** in the participating countries and regions in the BSR.
 - look into the **environmental, regulatory and socio-economic aspects of macroalgae cultivation, harvesting and use** across the Baltic Sea Region
- **identify suitable areas and technologies for cultivation** in the Baltic Sea Proper to unlock the potential of macroalgae and multi-use of the sea
- **raise awareness on the benefits, risks and opportunities of macroalgae** both as climate-smart catch crops and as a versatile biomass resource both as a source of food and in a circular economy context
- **build capacity on dealing with current legislation barriers and gaps**, and to improve governance capacities among public authorities to support the macroalgae sector in the BSR.



How to get involved!

- Synergies: Coastal Biogas/CONTRA/Tang.nu
 - Thematic/geographic exchanges
 - Joint events/workshops
- **SAVE THE DATE: GRASS Conference** 3. June 2020 in Berlin
- Join/get involved in one of the 18 planned stakeholder meetings in the BSR (DE, SE, FI, LV, EE, PL, RU).
- To get informed for upcoming events near you, subscribe to the GRASS stakeholder list
 - by subscribing to the SUBMARINER Newsletter
 - By sending email to ea@submariner-network.eu



GRASS contact

<https://www.submariner-network.eu/grass>

<https://www.submariner-network.eu/macro-algae-topic>

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