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Dear SUBMARINERS,

Before the summer break, we want to inspire you with this newsletter showcasing the many opportunities in the Blue Bio Economy of the Baltic Sea Region over the coming months and years. As shown in our report on the 'State of Play of the Blue Bioeconomy in the Baltic' (Dec 2020), the use of algae, beach cast and mussels is no longer just theory, but has by now reached the 'proof of concept' stage despite the the Baltic Seas' low salinity environment. This is also reflected by the enormous increase of companies active in this field. For that reason, we – the SUBMARINERS – call for all sustainable Baltic Blue Bio companies to represent themselves in the first-ever company and product catalogue, which is currently prepared by us.

It's now more important than ever that the growing Blue Bioeconomy community continues to gather and build on the increasing wealth of knowledge and experience, as well as acting and speaking with the one voice to enable policy makers to unlock the sector's full potential whilst contributing to Europe's Green Deal. Our new SUBMARINER Roadmap - discussed with hundreds of stakeholders in our series of 10 Better off Blue workshops - highlights the various recommended action streams.

While this newsletter shows snapshots, do not hesitate to dive much deeper into the blue bioeconomy by reading our reports or visiting our daily updated website: www.submariner-network.eu.

Or even better: simply give us a call or send us an e-mail ! Our secretariat

remains open over the entire summer.

Until the next edition,
The SUBMARINER Network Secretariat.



Welcome to our new members



Baltic Nylon is a multinational startup based in Germany, established in October 2020 to create biopolymers from fish waste to address the range of environmental problems caused by synthetic nylon. Their mission is to provide a sustainable alternative to fossil-fuel based nylon for the fishing, automotive and textile industries with a product that is locally sourced, made of waste raw materials and biodegradable.



PurOceansTechnology is a Latvian startup within the clean tech industry, established in 2019. Their mission is to clean up waters and seabeds from oil products and micro-plastic around the World. PurOceans aims to rehabilitate deep waters and restore/recover deadzones (over 500 deadlines around the world), as well as restore historically polluted areas from oil products and micro-plastic.



The vision of **Origin by Ocean** is to create the Baltic Sea an algae-based business ecosystem in Finland that would help the eutrophication of the Baltic Sea commercially viable. The company has secured the seed phase funding of 3M EUR funding for the development of algae processing technology. Finland's first algae processing plant is

Blue research

Blue Research Aps offers development and advice in the field of blue bioeconomy. Development and advice include the cultivation and fishing of mussels, oysters and seaweed, and the cultivation of fish. Blue Research advises on production methods, management and business development. Blue Research offers solutions

planned to be operational with full production capacity in 2027.

based on collaboration with experts across the company's network.



SUSTAINABILITYNOW
Leadership with a Purpose



Roskilde University Lorem Roskilde University (RUC) is an international university of Denmark with 900 employees, 8.400 students. The main SUBMARINER contact point with RUC is Søren Laurentius Nielsen, an associate professor in plant and algal physiology and –biology at the Department of Science and Environment.

SUSTAINABILITYNOW supports leaders and employees in the development of sustainable processes in public and private companies. This is done through inspiring mentoring and creative Business Development. The sustainable future depends on us daring to take new paths and think thoughts that are not yet mainstream.

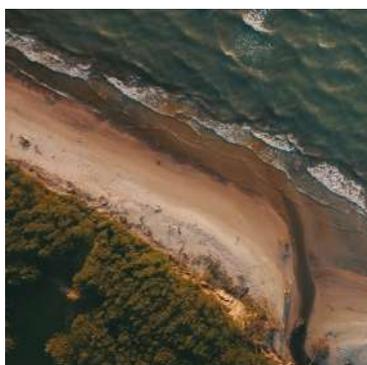


Estonia represented in SUBMARINER Executive Board as of January 2021

The University of Tartu, a long time associated member of SUBMARINER, has moved to full member status as of 1st January 2021. This means that also Estonia is now fully represented in strategic decisions taken by SUBMARINER.

[Learn more about members of our network](#)

News from the SUBMARINER Network



SUBMARINER Roadmap 2021-2027 online



Catalogue of Baltic Blue Products and Companies



Review of five years of Blue Bioeconomy actions

The SUBMARINER Assessment of the State of Play of the Blue Bioeconomy in the Baltic 2020 showed that many developments and support actions have reached the 'Proof of Concept' stage. Thus SUBMARINER work will focus in coming years on demonstration rather than pilot actions, increased company support, consumer and citizen engagement and development & implementation of regional action plans. Download the new [SUBMARINER Roadmap report here](#) and related [PPT here](#).

Are you eager to get easy access to sustainable blue solutions already in place in the Baltic Sea Region? Then stay tuned! The SUBMARINER network received funding earlier this year from the Nordic Council of Ministers to create an online catalogue of products developed by companies using the aquatic resources of the Baltic Sea Region. Anyone interested in Blue Bioeconomy solutions will be able to access this database via our website within the next six months...[Discover the concept](#).

The SUBMARINER Status Quo report in the Baltic Blue Bioeconomy provides for an extensive review of results achieved within the BSR by the numerous projects implemented in the area. These have led to impressive quantitative as well as qualitative progress in knowledge and technology. At the same time it also shows that legislation and licensing is lagging behind...[Get the full picture with the report here](#).



Make your pledge to help the ocean

The EU4Ocean Coalition has launched the #MakeEUBlue Campaign – we are now calling on all Baltic Sea Region citizens, businesses, organisations, authorities, celebrities, educators etc. to make a pledge to help the ocean. Your pledge is a personal promise or action that will keep our ocean healthy. Learn more about the call here or [submit your pledge!](#)



Help us find Baltic Marine Citizen Science Projects!

On behalf of BANOS CSA, we are developing the first-ever overview of marine citizen science projects in and around the Baltic Sea Region. We are keen to hear from you and to include your project into our database, with the ultimate aim of encouraging more of such projects to be realized in the future! Let us know about your project: you have until 1st August to [fill in our short survey](#).



Fundraising Guide for Biotechnology Start Ups

Bio tech start-ups differ from other tech start-ups due to high investment needs, long development cycles and partially legal uncertainties. The guide provides concrete advice on what investment mechanisms are available in this specific field. It is part of the SUBMARINER accelerators' toolbox and is designed for start-ups; SMEs and mentors; experts alike. [Discover the fundraising guide here](#).



Our Secretariat is HIRING

With the round of new EU funding programmes about to be launched soon, we are looking for a new project manager to complement our management team based in Berlin! More about the position [here](#). Candidates are requested to send their CV, a motivation letter and relevant support documents by e-mail to: info@sustainable-projects.eu.

Don't miss our latest project newsletters

MULTI-FRAME

[First newsletter issue](#)

GRASS

[Seaweed Newsletter No.7](#)

NEW - discover our Working Groups



Macroalgae Working Group

As a result of the GRASS macroalgae conference, SUBMARINER launched a permanent WG for Baltic actors involved in macroalgae and seagrass initiatives. The WG is an open forum to foster regular exchange of information and experience among and across research, business and administration. If interested to join and receiving our regular info on seaweed, please get in touch with Frederick Bruce: fb@submariner-network.eu. In case you missed the Macroalgae WG kick-off meeting, [catch up here](#).



Sustainable Aquaculture Working Group

What is the future of sustainable aquaculture in the Baltic? Join our new working group to share knowledge and experiences, brainstorm new projects and organise trainings, study visits and collaborative activities. Together we will strive to connect aquaculture practitioners, technology providers as well as other R&D partners through a set of dedicated activities...Would you like to [join the Aquaculture Working Group](#) or [learn more?](#)



Marine Litter Working Group

The SUBMARINER network has taken the first steps to advance regional cooperation on the issue of marine litter in the Baltic Sea Region. A Baltic Marine Litter workshop was organized on 4 May to provide a joint understanding of the strengths and expertise of the BSR community on marine litter. If interested to join the conversation, please get in touch with Susanne Altvater: sal@sustainable-projects.eu or [learn more about the WG here](#).

SUBMARINER in the Baltic countries

Blue Bioeconomy Opportunities in Mecklenburg-Vorpommern

Linking innovative aquaculture or coastal renaturation sites with tourism offers was just one of the numerous future actions identified by more than 45 blue bioeconomy actors from Mecklenburg-Vorpommern in an online workshop organised by SUBMARINER on 27 May 21. And what is even better: National programmes like Plant3, BAMS and Ocean Technology Campus Rostock are readily available to support such initiatives! [Learn more about MVs' potential and support projects in the following documentation](#).

Blue Bioeconomy Conference in Denmark

On 28 April 2021, 88 enthusiastic participants from amongst others Denmark, Germany, Sweden and Latvia, logged into the webinar "Resources from the Sea – production and protection" part of the Blue Platform project (Interreg BSR), where presentations of facts and business experiences from in all 14 dedicated actors were pitched. On this basis, a workshop was held during the afternoon, facilitated and moderated by the Thinktank FREJ.

Closer cooperation needed for the Blue Bioeconomy in Latvia

A national discussion "Blue Bioeconomy in Latvia" organized by Kurzeme Planning Region and Latvian Institute of Aquatic Ecology in the framework of projects GRASS and Blue Platform was held in Zoom on 15 June. The invited speakers represented DG Mare, ministries of Agriculture and Education&Science, research and academic institutions, and entrepreneurs. Mr. Maris Stulgis of DG Mare stressed the importance of strengthening blue bioeconomy

and especially the role of algae in EU initiatives “Farm to Fork” and Green Deal... [Read more.](#)

Estonian event shows potential of blue economy sector

There is a great potential for Estonia in the blue economy - according to Gunter Pauli, a global entrepreneur, innovator and visionary who gave the opening speech at the 'Blue Economy - adding colours to the economy' Conference on 3rd June in Tallinn. The development of the sector would be helped if people's awareness of the blue economy was more broad-based. The reason why this inspirational conference focusing on blue bioeconomy was organized was to bring attention of its opportunities to a wider audience... [Read more.](#)



Documentation of our Better of Blue Series



Blue (Bio) Economy high on agenda of many upcoming funding programmes - 1 March 2021

On 1 March 2021, SUBMARINER presented its new Roadmap 2021-2027 to representatives of almost all future EU funding programmes; such as the new Horizon Partnerships, INTERREG, BANOS and LIFE. While it remains challenging to receive strategic funding, numerous opportunities for projects will arise again as of end of 2021; with implementation expected to start late summer 2022. If you want to learn more and how to become part of the new series of SUBMARINER project applications, please contact Efthalia Arvaniti: ea@submariner-network.eu.

Alliance Final Conference - 24-25 March 2021

The Alliance+ final conference saw inspirational Baltic start-ups and SMEs pitching their business ideas to mentors and investors. Are you a Baltic startup or investor and want to get involved? We are constantly looking for new cases, but also mentors, investors, supporters and "blue detectives" that wish to join our efforts! [Join our Blue Growth Accelerator.](#)

GRASS Final Conference - 6-7 May 2021

Macroalgae Cultivation in the Baltic Sea – making waves across the Baltic! The final GRASS conference provided a unique platform for stakeholders from across the region to present their research and vision for the future of macroalgae in the Baltic...[Read more.](#)

MSP for the BlueBioeconomy - 27 April 2021

On 27 April 2021, we presented our new BlueBioSites initiative, a flagship project under EUSBSR HA Spatial Planning. Numerous MSP authorities have already indicated a strong interest in improving their processes together with research and industry as to accelerate the identification and allocation of suitable sites for algae- and mussel cultivations not only to increase biomass production, but also to contribute to the EU Green Deal / HELCOM Baltic Sea Action plan goals for CO2 and nutrient uptake.

Who drives multi-use? Are fishers willing to compromise? Is MSP

Multi-Use gaining importance - 4th Baltic MSP Forum, 1st June 2021

open enough to ocean innovation? These were some of the issues raised at the 4th Baltic MSP Forum on a workshop dedicated to multi-use in MSP. The session highlighted the need for a more inclusive approach to planning, considering all sectors and multiple national priorities, including not only energy security but also food security and nature protection.

Cool Blue Bioeconomy - European Maritime Day, 20 May 2021

The biggest Seaweed Farm in Europe; Baltic Round Goby as a new 'delicatess'; Shrimps from Lithuania; Danish Fishermen turning Oceanfarmers These were just a few of the samples provided by SUBMARINER members to a European wide audience on concrete 'Cool Blue Bioeconomy opportunities in the Baltic'. Missed the event? Want to see the slides? [Get them here](#).



And more events to come...

Join us in Helsinki on 26-27 August at the EU4Ocean Baltic Sea Basin Ocean Literacy Event & become a Baltic Young Ocean Advocate

Join the European Commissioner for the Environment, Oceans and Fisheries in what will surely be a once-in-a-lifetime event! We will showcase initiatives and activities from all Baltic Sea Region countries and gather all relevant Ocean Literacy stakeholders from across the region, to transfer and generate joint knowledge and to raise awareness about the ocean, its resources and its importance for the Blue Economy and human health. It will be a hybrid event, taking place both in-person in Helsinki as well as online...[Read more](#).

7th International Congress for Underwater Archaeology (IKUWA)

23 Aug – 29 Aug 2021

Helsinki, Finland

SEAGRICULTURE 2021: 10th International Seaweed Conference

15 Sep – 16 Sep 2021

The event is online

European Congress of Marine Biotechnology

22 Sep – 24 Sep 2021

Málaga, Spain

Aquaculture Europe Madeira

04 Oct – 07 Oct 2021

Madeirã

[Full event calendar](#)

News from our SUBMARINERS

Join the Hack DigitalSea on 3-4 July

International online hackathon organized by the three Baltic States dedicated to the search for digital and innovative solutions that can promote the development of green ports, reduce pollution and the impact of shipping, preserve natural biodiversity, strengthen food value chains, promote the use of renewable energy sources, make more efficient use of logistics and create a socially friendly environment for all. Please find information about the challenges and registration at <http://hackdigitalsea.lt/>



Coastal weeds biologically filter sewage of local shrimp farm

In May 2021, after two years of planning and with a small budget of 30.000 € only, the first-of-a-kind installation of a saline sewage treatment plant was recently finalized. Saltwater-tolerant herbs and weeds have been planted by volunteers into rocky and sandy substrate on top of an elaborate airing- system, so the nutrient-loaded waste water of the neighboring shrimp farm may pass both a physical and a biological filtration process... [Read more.](#)

Be a host for fully funded students to boost YOUR blue ideas!

Your blue company or institute could maybe run a

sustainability-focused project of 6-12 months duration, but would need some qualified extra-power for it? The German Federal Environmental Foundation (Deutsche Bundesstiftung Umwelt DBU) offers scholarships for university graduates from Central and Eastern Europe. This scholarship program is a valuable opportunity for graduates to spend 6 to 12 months at a German research institution or company. [Get involved!](#)



AquaVIP Gdynia Summer School

The University of Gdansk organized AquaVIP Gdynia Summer School, an online course on the topic of Aquaculture – promising solutions of technologies for the South Baltic Region – RAS – shrimps – aquaponics – algae, on the 17-20 May 2021. The aim of the course was to showcase new trends in innovative aquaculture, with the focus on Recirculating Aquaculture Systems, shrimps cultivation, algae and aquaponics, and to help develop aquaculture skills and expand career opportunities among students and professionals...[Read more.](#)

Don't miss the Ocean Re-CREATION Challenge

The TransMarTech SH is organiser of the [Ocean Re-CREATION Challenge](#), a maritime make-and hackathon, taking place from 13-17 September 2021 in Kiel and Lübeck. For this event we still look for mentors in the fields of a) ocean pollution and sea-level rise, b) food & marine biomaterials, c) mobility & logistics, d) energy & resources. Mentors should be experts in one of these fields or specialists in techniques like design thinking, lean start-up, prototyping, business model or team development or they should be experienced in interdisciplinary cooperation, project management or hackathons in general. Are you interested? Then please contact Julia and indicate your expertise via make@transmartech.sh.





Stay tuned for more news via
<https://www.submariner-network.eu/>

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