

A collaborative European stakeholders' forum

The ultimate objective is to accelerate the scale up of a regenerative, resilient, fair and climate friendly algae industry in Europe.

Algae value chains in (NW) Europe - Final IDEA+ Event 28 September 2023

About EU4Algae

EU4Algae Forum is aimed at

gathering algae interested parties, from all relevant public and private organizations,

to jointly implement the EU Algae Initiative,

while offering a **forum to openly speak and discuss** market driven breakthroughs for the sector.









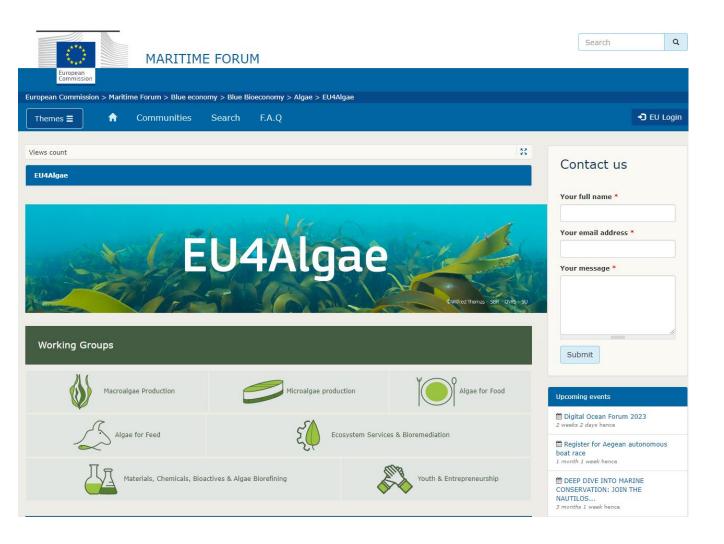




Implementing partners

EurA ®	Project management ; Development of structure and governance model; Coordination, facilitation and management of EU4Algae; Strategic communication and community management; Communication activities; Awareness raising and stakeholder acceptance; Facilitation of WGs with communication; Continuity of EU4Algae stakeholders forum.	Germany	Lead
EABA EUROPEAN ALGAE BIOMASS ASSOCIATION	Development of EU4Algae structure and governance model; Facilitators of EU4Algae working groups; Supporting a sustainable development of the industry; Support bringing more algae species to the EU market either as traditional or novel food, or as food supplements; Quality management activities.	Italy	Partner
SYSTEMIQ	WG facilitator for macroalgae production; Support Forum establishment preparation; Support analysis and stakeholder engagement to improve business environment and industry's sustainable development; stakeholder engagement with <u>Seaweed for Europe</u> Coalition; Quality Management Activities	United Kingdom	Partner
S. Pro	Support to business environment, increased involvement of young people , collection and assessment of algae related projects, Bioremediation , etc.; Contribution to all other WP1 tasks, esp. the facilitation of EU4Algae online and physical working groups & meetings; Contribution to WP2 tasks based on our experience in creating sustainable, self-financed EU wide multi-actor structures within the blue bioeconomy.	Germany	Partner
technopolis group	Improving governance and the regulatory framework ; Regulation WG Facilitator; Quality management activities.	Netherlands	Partner

EU4Algae Forum Hosting



Maritime Forum (europa.eu)

EU4Algae is hosted in the **Maritime Forum**.

This includes the EU4Algae website, link for the Working Groups and respective Microsoft environment (SharePoint) for document hosting.

EU4Algae





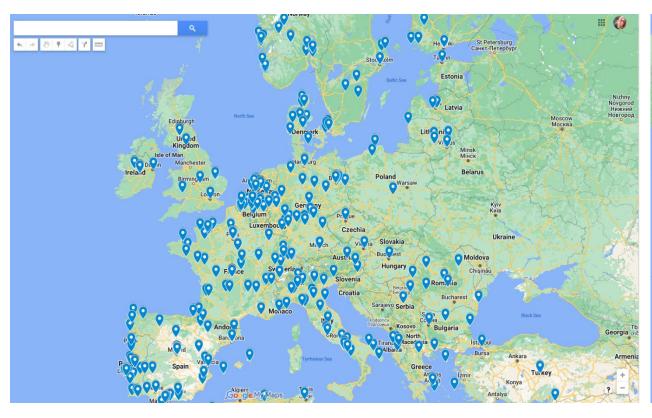






EU4Algae registered members

+850 members registered and participating in WGs discussions





EU4Algae Working Groups



WG 1 Adrien Vincent



WG 2 Jean Paul Cadoret



WG 3 Vitor Verdelho



WG 4 Kim Anderle



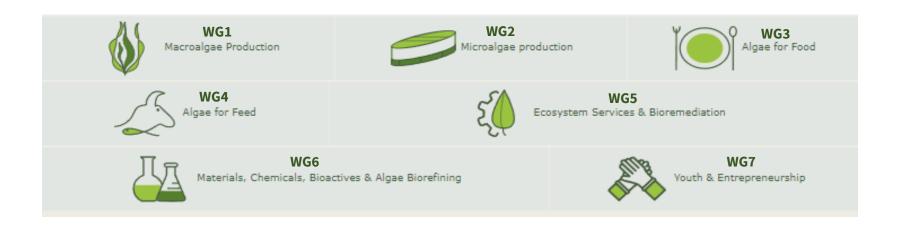
WG 5 Efthalia Arvaniti



WG 6 Gabriel Acien



WG 7 Frederick Bruce











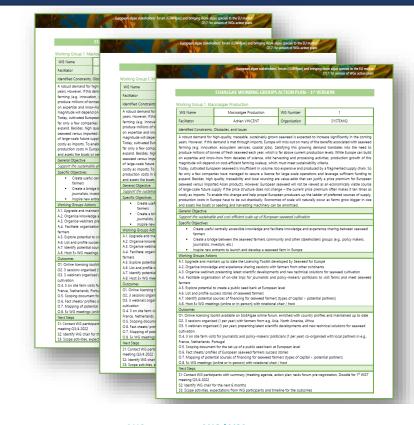


Working groups – Action Plans

- ✓ Constraints and challenges
- ✓ Objectives
- ✓ Actions
- ✓ Outcomes
- ✓ Next steps



Policy reccomendations















Focus of the presentation

1) the importance of algae for Europe & the current EU-vision (including calls)

2) to share EU4algae conclusions/activities related to start-ups & valorisation trajectories"

Importance of algae for Europe

"Strategic guidelines for a more sustainable and competitive EU aquaculture for the period 2021 to 2030 (Strategic guidelines for EU aquaculture) stress the need to promote the farming of algae – both macroalgae (seaweed) and microalgae – as a way of contributing to achieving several objectives of the European Green Deal.

The farming of algae can contribute to achieving the EU's objectives in terms of decarbonisation, zero pollution, circularity, the preservation and restoration of biodiversity, the protection of ecosystems and the development of environmental services. Algae can replace fossil-base products, and serve as raw material for plant biostimulants, bio-based chemicals and other materials, and biofuels. The Sustainable Carbon Cycles Communication8

recognises the potential of algae for the blue carbon economy."

The EU algae initiative was announced mid-

November 2022



Brussels, 15.11.2022 COM(2022) 592 final

COMMUNICATION FROM THE COMMISSION TO THE EUROPEAN PARLIAMENT, THE COUNCIL, THE EUROPEAN ECONOMIC AND SOCIAL COMMITTEE AND THE COMMITTEE OF THE REGIONS

Towards a Strong and Sustainable EU Algae Sector

{SWD(2022) 361 final}



Virginijus Sinkevičius • 1er

European Commissioner for Environment, Oceans and Fisheries at European ...

1 sem. • 🔇

Pioneering Eu initiative just out!

We present 23 actions to boost the Algae sector in Europe.

"EU4Algae already played an important role during the preparation of the EU

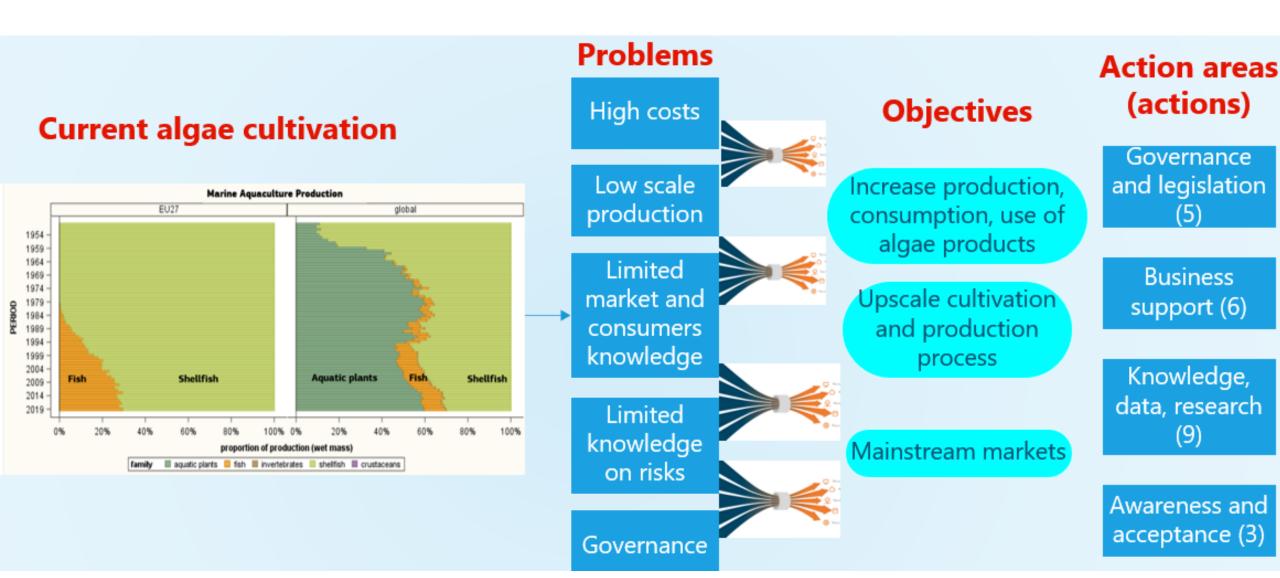
Algae Initiative, and I am very thankful for that!

Moreover, I trust that EU4Algae will play an active role in making the EU Algae
Initiative a success story. Such a collaboration is crucial as ultimate goal of the
initiative is to support algae sector that at the end of the day will create the added
market value.

So, the Commission will continue to work hand in hand with the EU4Algae and other relevant stakeholders to let the EU Algae sector to thrive."

Delilah AL KHUDHAIRY
Director of MARE Directorate A: Maritime Policy and Blue Economy
EU4Algae meeting 12 December 2022

The EU Algae Initiative – How did we get there?



The EU Algae Initiative – a cross-DG initiative

• Algae testing and extraction as well as algae biofuel standards (ENER)



Algae-based materials in fertilising products (GROW)



• Use of nutrients and CO2 for microalgae cultivation and certification (AGRI)



• Iodine and contaminants in algae (SANTE, EFSA)





 Algae biofuel-specific technological and systemic challenges, processing and cultivation systems development (RTD)



• Harmonize algae-related data (JRC, ESTAT)









How you are contributing to implementing the EU Algae Intiative as EU4Algae member....

adopted on 15 November 2022

ACTION 1 - starting in 2023 and in close collaboration with relevant stakeholders, develop a new algae farmers' toolkit;

ACTION 2 - Work with Member States to facilitate access to marine space, identify optimal sites for seaweed farming and include seaweed farming and sea multi-use in maritime spatial plans;

ACTION 3 - By the end of 2026, together with the European Committee for Standardization (CEN), develop standard testing, quantification and extraction methods for algae ingredients and contaminants;

ACTION 4 - By the end of 2026, together with CEN, develop algae biofuel standards and a certification methodology for algae-biofuel products to be used in various transport sectors, particularly heavy road, aviation and maritime transport;

ACTION 5 - Starting in 2023, assess the market potential, efficiency and safety of algae-based materials when used in fertilising products and the need to amend Regulation (EU) 2019/1009 on EU fertilising products to include algae-based materials.

EU4Algae direct contributions

WG1 is promoting and upgrading and updating the Licensing Toolkit developed by Seaweed for Europe at EU4Algae website

EU4Algae presented the status quo, current challenges and existing efforts in a workshop organised with MS

Dedicated Work Package and WG3 is dedicated to support bringing more algae species to the EU market either as traditional or novel food, or as food supplements

EU4Algae is exchanging regularly with the CEN

Insights from industry collected by WG 6-EABA to address regulation issues regarding biofertilisers and other potential applications

adopted on 15 November 2022

ACTION 6 - Starting in 2023 and together with the algae industry, examine the algae market and propose market-stimulating mechanisms to support and promote the transfer of technology from research to market;

EU4Algae direct contributions

EU4Algae Task 1.6 aims at driving forward the EU algae business environment improvement and stimulation actions, promote entrepreneurship and business creation and compile calls and EU funded projects related to blue bioeconomy/algae.

ACTION 7 - By the end of 2024, based on the good practices, feed indicators and other relevant information develop specific guidance to promote replacing fish-based feed with algae-based feed;

WG4 is developing insights to better understand the feed market and consumer trends, and to raise awareness about algae-based feed

ACTION 8 - Work with the algae industry and Member States to: identify valid and safe alternatives to the use of nutrients and CO2 from various sources for microalgae cultivation and organic certification; promote the extraction of nutrients from algae biomass support the life cycle assessment of the environmental and climate impact of algae cultivation and production by considering the development of monitoring methodologies and indicators to measure the environmental impact and sustainability of seaweed cultivation;

WG 2 is discussing how to expand the current microalgae production capacity/technologies

EU4Algae Task 1.9.2 together with WG5 are assessing the bioremediation potential of algae = nitrogen, phosphorus and carbon uptake, impacts of algae cultivation on the health of the ocean and humans, as well as broader ecosystem services

adopted on 15 November 2022

EU4Algae direct contributions

ACTION 9 in 2023/2024, pilot project(s) supporting the reorientation of fishers' careers from fishing to regenerative ocean farming;

WG1 is sharing inspiring experience from existing seaweed farmers + Licensing toolkit helps understand the regulatory process to apply for a concession

WG7 is exploring tools and initiatives to attract more youth and entrepreneurs into the algae industry.

ACTION 10 enhance targeted support for innovative SMEs and projects in the algae sector through the scaled-up activities of the BlueInvest Platform;

EU4Algae will co-host a e-Pitching session with BlueInvest for algae start-ups in October and WG2 will organise a specific micro-algae Forum.

WG6 is developing a platform including the pilot and demonstration scale facilities available for sharing and collaborating in the development of new produced and processes.

ACTION 11 starting in 2023, facilitate sea basin and macroregional cooperation by promoting innovative interregional partnerships (e.g. the blue bioeconomy, focusing on algae), through smart specialisation strategies and the S3 Sustainable Blue Economy Platform

EU4Algae is promoting the work done by EU-funded collaborative projects and helps connecting dots between them and identifying synergies (e.g.; workshop held at the European Maritime Day 2023)

adopted on 15 November 2022

EU4Algae direct contributions

ACTION 12 by the end of 2023, integrate algae sector knowledge into the EU aquaculture assistance mechanism;

ACTION 13 by the end of 2025 and in collaboration with relevant stakeholders, do a study to gain better knowledge of seaweed climate change mitigation opportunities and the role of seaweed as blue carbon sinks;

WG 5 is also looking at ecosystem services on carbon capture and utilization (CCU) provided by algae and the evaluation methodologies.

ACTION 14: By the end of 2025 and in collaboration with researchers and academics, assess the options for an EU-wide approach to conserving seaweed biodiversity by maintaining and documenting European seaweed strains in a centralised biobank network or databank;

WG1 and WG2-EABA are addressing the biobanks topic, specifically through discussions with local biobanks, SeaStrains project and FMBRC.

ACTION 15: Starting 2023 and subject to European Food Safety Authority advice start discussions on the establishment of maximum levels of contaminants and iodine in algae and/or the adoption of a new recommendation for algae species for which insufficient occurrence data for contaminants are available to allow the establishment of maximum levels.

WG3-EABA is looking at Algae for food, including food safety topics

Dedicated Work Package 3 to support bringing more algae species to the EU market either as traditional or novel food, or as food supplements

adopted on 15 November 2022

ACTION 16: Starting in 2023 and in collaboration with Member States, study existing monitoring schemes and available data on seaweed harvesting from the wild and from beachcast on EU coasts.

ACTION 17: Support, through Horizon Europe and other EU research programmes, the development of new and improved algae processing systems and novel production methods for high-value compounds traditionally sourced from algae processing algae to make circular biobased products for multiple applications;

ACTION 18: Together with Member States, support, through Horizon Europe and other EU research programmes, the development of better and scalable algae cultivation systems or methods for dealing with the current technical constraints of macroalgae and microalgae production systems;

ACTION 19: Address algae biofuel-specific technological and systemic challenges and identify market take-up measures in the context of Horizon Europe.

ACTION 20: Starting in 2023, prepare an overview of the availability of algae-related data (e.g. production, employment, turnover and other socioeconomic data) and issue a recommendation on centralising the sources of such data.

EU4Algae direct contributions

EU4Algae is promoting the work done by EU-funded collaborative projects and helps connecting dots between them and identifying synergies (e.g.; workshop held at the European Maritime Days)

WG6 is creating the platform and online course and webinars focused in biorefineries, agriculture products, bioplastics, etc. A repository with this material will be integrated into the platform

WG1 and WG2 are contributing to this topic, through knowledge curation on EU4Alage platform and organization of dedicated webinars for instance. WG6 platform will also contribute.

adopted on 15 November 2022

ACTION 21: Starting in 2023, support the raising of consumer awareness by: A. doing a consumer behaviour and preference analysis (Eurobarometer) of the perceptions of algae-based products; B. launching a fact-based EU-wide and/or, where relevant, regional or local communication campaign(s) to promote the variety of applications and benefits of algae-based products (algae cooking contest);

ACTION 22: raise the sustainability profile of algae-based products under sustainable food labelling framework (...) and green public procurement as part of the Farm to Fork Strategy.

ACTION 23: Starting in 2023, together with the EU4Ocean platform and Member States, promote awareness-raising actions for schools and universities on the blue bioeconomy and innovative solutions for regenerative aquaculture.

EU4Algae direct contributions

EU4Algae Task 1.8 → EU4Algae will focus on the consumers, end users and the civil society to raise awareness and create consumer acceptance on algae products via social media campaigns + design and implement a fake online web shop with the purpose of testing consumer's preferences on algae products.

WG6 is developing different surveys about social and industrial acceptance of algae products and services

WG 7 is mapping stakeholders and relevant youth & entrepreneurship networks, creating online repository + algae apprenticeship scheme with relevant companies in collaboration and developing training materials for schools with EU4Ocean.

WG 6 is developing courses about algae biorefineries, online, webinars and presential. The first one will take place on July 3rd-7th, 2023 in Almeria (Spain).

EU4Algae is collaborating with DG MARE, The Global Seaweed Coalition, the French Ministry of Agriculture and the Prince Albert 1st of Monaco Foundation to support the organization of the first Algae Awareness Summit that will take place in Paris in October 2023

Opportunities Now **UN**

HORIZON-CL6-2024-FARM2FORK-02-7-two-stage call





Who can apply?

Any legal entity is eligible to participate (whether it is eligible for funding or not)

Programme	Call	Scope	Participants	EU contribution	Deadline / Cut-off	Other relevant info
HEU - Cluster 6	HORIZON-CL6- 2024-FARM2FORK- 02-7-two-stage - Minimising climate impact on aquaculture: mitigation and adaptation solutions for future climate regimes	Proposals are expected to enhance knowledge of the impacts of climate change on aquaculture production at environmental, social and economic levels. () They should also investigate adaptation and mitigation solutions and opportunities such as technological, social, economic, and biological/ecological aspects, selection of suitable sites, culture methods (including the contribution of organic production and integrated multi-trophic aquaculture), () for a more sustainable, productive and resilient production. Furthermore, they should address aspects of circularity ().	At least three legal entities from different EU MS or AC	EU contribution of around EUR 4.5 million (2 projects)	22 February 2024 17 September 2024	. IA – two stages . TRL at the end of the project should be 6-7 . Funding rate: 70% (except non-profit: 100%)

Calls







HORIZON-CL6-2024-FARM2FORK-02-6-two-stage call

Who can apply?

Any legal entity is eligible to participate (whether it is eligible for funding or not)

Programme	Call	Scope	Participants	EU contribution	Deadline / Cut-off	Other relevant info
HEU - Cluster 6	HORIZON-CL6- 2024- FARM2FORK- 02-6-two-stage - Minimising climate impact on fisheries: mitigation and adaptation solutions for future climate regimes	Proposals are expected to investigate the impacts of climate change () in stocks distribution, abundance and density, fish health, stock productivity, habitats, regime shifts in ecosystems and altered growth, reproduction rates, seafood safety and overall changes in the ecosystem potential production. They should also explore and test innovative measures to mitigate climate change () and adaptive solutions (). Proposals should include () the whole spectrum of European fisheries, including small-scale fisheries, and the related biotic, abiotic, social and economic conditions.	At least three legal entities from different EU MS or AC	EU contribution of around EUR 4.5 million (2 projects)	22 February 2024 17 September 2024	. IA – two stages . TRL at the end of the project should be 6-7 . Funding rate: 70% (except non-profit: 100%)

Calls



HORIZON-CL6-2024-FARM2FORK-01-7 call





Who can apply?

Any legal entity is eligible to participate (whether it is eligible for funding or not)

Programme	Call	Scope	Participants	EU contribution	Deadline / Cut-off	Other relevant info
HEU - Cluster 6	HORIZON-CL6- 2024: FARM2FORK: 01-7 - Impact of the development of novel foods based on alternative sources of proteins	. Assess the potential of insect protein, micro and macro algae-based products, microbial proteins and/or food/aquaculture by-products in terms of market development taking into account the farm to fork strategy objectives based on up-to-date/new knowledge about them. . Assess their economic impact . Assess their social impact . Assess their potential to address the most relevant European Green Deal objectives	At least three legal entities from different EU MS or AC	EU contribution of around EUR 4.5 million (2 projects)	February 2024	. RIA – single stage . Funding rate: 100%





BLUEINVEST E-PITCHING SESSION

11 OCTOBER 2023

4PM - 5PM CET



Thank you for your attention!

