



#EU4Algae

EU4Algae Online Info Session on Governance, Research, Business and Awareness

20 September



Agenda

10h00 - Welcome and Introduction

10h05 - Recap of achievements by WGs in the implementation of the Initiative

11h05 – 11h20 – Updates from Commission

Break

11h30 – 12h00 - Slido & Intro to Breakout Sessions

12h00 – 12h30 - Breakout Room Discussions

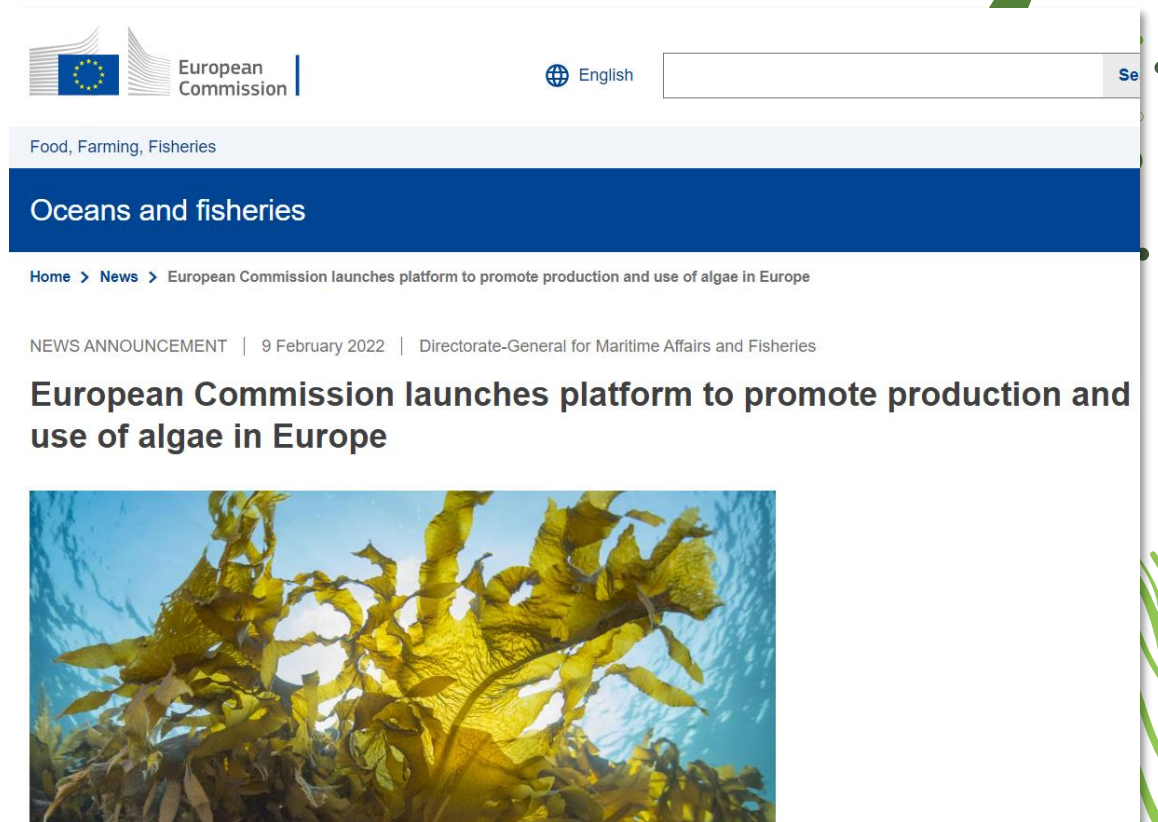
12h30 – 12h50 - Report Back from Breakout Rooms

12h50 – 13h00 - Closing Remarks



About EU4Algae

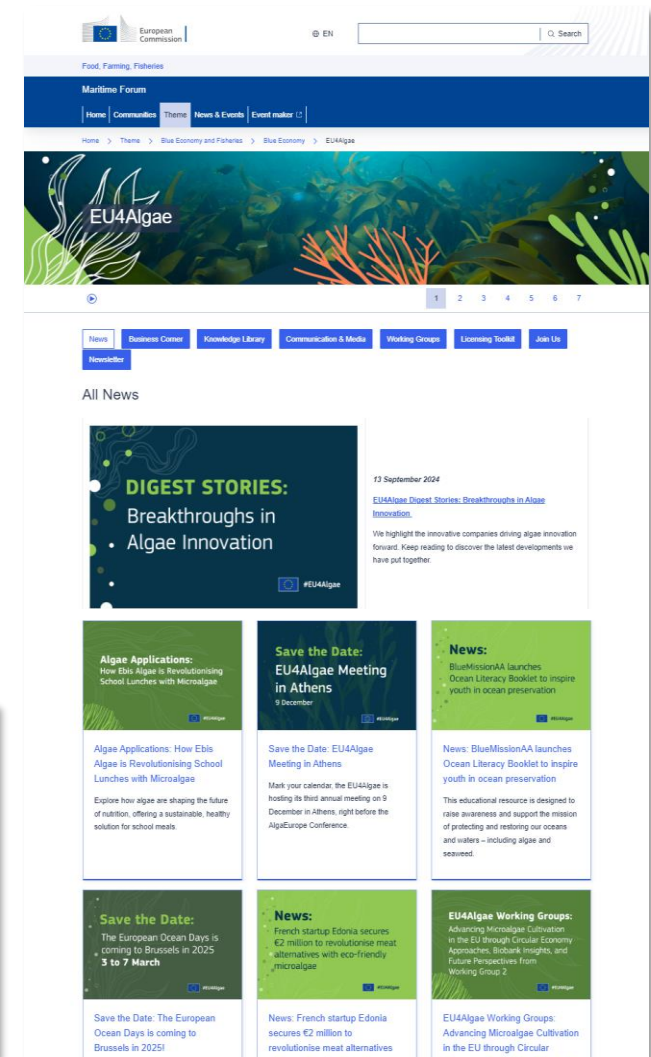
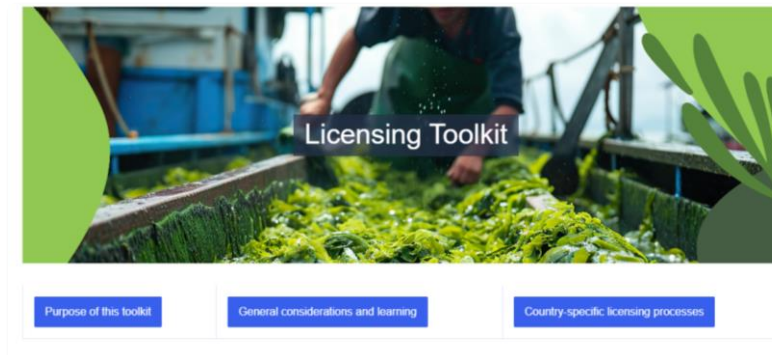
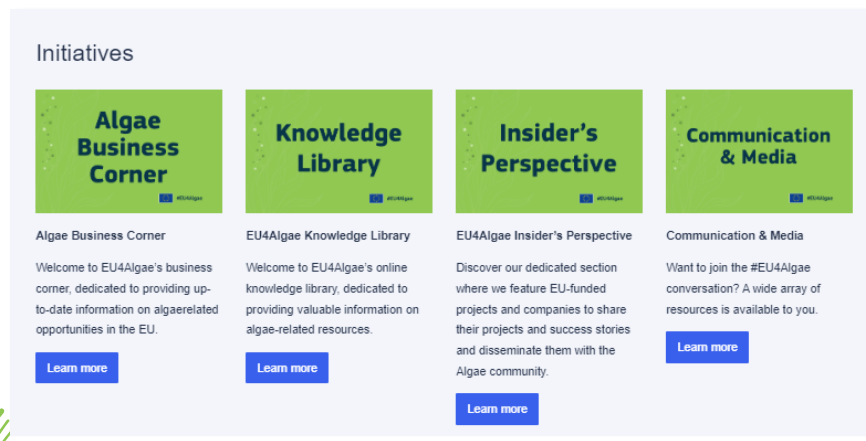
- **Gathering algae interested parties**, from all relevant public and private organizations.
- Centralizing and making **algae-relevant information accessible**
- Offering a **channel for discussions and exchange** about the sector's industry, governance and knowledge
- **Supporting the implementation of the EU Algae Initiative**



What's in EU4Algae?

EU4Algae is hosted under the Maritime Forum

We inform on funding opportunities, flag different EU algae funded projects and initiatives and the latest studies and articles in our Knowledge library.



Cross-project coordination facilitated by EU4Algae

- Mapping & Coordination between EU-funded projects relevant to algae sector:
 - EMFF/ EMFAF
 - LIFE Programme
 - Horizon 2020
 - Horizon Europe / Mission Ocean
 - DG MARE
 - EIC Innovation challenges

Start	End	ACRONYM	DESCRIPTION	MICRO/MACRO	SPECIES (if any)	TOPIC/TAG	RESULTS	PROGRAMME	EU CONTRIBUTION
1/9/2023	1/8/2027	ICULTURE	ICulture: A digital bio-platform and co-culture bioprocess to prospect and utilize...	Macro		Governance Knowledge Transfer Bioprospecting	pending	HEU	
1/4/2023	1/3/2026	COOL BLUE	Community Ocean farms and Local Business CLUSTERS	Both	Ulva, Saccharina...	CLLD Business Development Knowledge Transfer Education	pending	HEU	
1/1/2023	1/12/2027	PlastiOrigin	Testing the paradigm of a single plastid origin in eukaryotes	Micro		Bioprospecting	pending	EIC	
1/1/2023	1/12/2027	ChloroMosaic	Environmentally-informed functional characterisation of the secondary red chloro...	Micro	Phaeodactylum	Bioprospecting	pending	EIC	
1/12/2022	10/11/2026	BLUETOOLS	INNOVATIVE TOOLS FOR SUSTAINABLE EXPLORATION OF MARINE MICROBIOM...	Micro		Bioprospecting	https://www.bluetools-ec...	HEU	
1/6/2022	1/10/2023	SeaStrains	To create a seaweed biobank network, The SeaStrains Working Group (WGL) whos...	Macro		Bioprospecting Aquaculture / Cultivation Business Development		Service Contract	
5/1/2021	10/4/2026	KleptoSlug	Kleptoplasty: The sea slug that got away with stolen chloroplasts	Micro	Cyanobacteria	Bioprospecting	https://journals.elsevier.c...	H2020	
1/1/2021	1/12/2025	TETHYS	The evolution and regulation of major transitions in sexual systems: new insights ...	Micro	Brown Algae	Bioprospecting LCA	https://cordis.europa.eu/...	EIC	
1/1/2021	1/12/2023	BlueBioChain	Novel biorefinery supply chains for wastewater valorization and production of hig...	Micro		Bioprospecting Biorefinery Bioactives Food Healthcare		BlueBioCoFund	
11/1/2020	1/10/2023	Phycosphere Fe	Iron speciation in the microenvironment surrounding phytoplankton cells and the...	Micro		Bioprospecting		H2020	
10/1/2020	10/9/2025	BlueBioFuture	BlueBioFuture - Blue Biotechnology and Bioengineering for the Current and Fut...	Both		Education Governance Bioprospecting LCA	https://bbf.cimr.usc.edu/...	H2020	
1/1/2020	1/12/2023	MINERVA	Marine Innovation using Novel Enzymes for waste Reduction and Valorisation of ...	Micro		Biofouling Food Biorefinery Bioprospecting		BlueBioCoFund	
1/1/2019	1/12/2022	MARIKAT	New catalytic enzymes and enzymatic processes from the marine microbiome for...	Micro		Bioprospecting Biorefinery		BlueBioCoFund	
9/1/2017	1/6/2018	UPMab	Unlocking the Potential of deep-sea Marine Algae and Bacteria	Micro		NOU Bioprospecting Aquaculture / Cultivation		H2020	
9/1/2017	10/4/2020	MONSTAA	Metabolism of Novel Strains of Arctic Algae	Micro		Bioprospecting LCA		H2020	
3/1/2017	1/6/2022	GNAHA	The Genus Haslea: New marine resources for blue biotechnology and Aquaculture	Both		Bioprospecting LCA	https://cordis.europa.eu/...	H2020	
2/1/2017	1/1/2022	TREATCilia	Novel Therapeutic Avenues for dynein-related Cilopathies	Micro	Chlamydomonas	Bioprospecting Pollution Wastewater Treatment	https://cordis.europa.eu/...	EIC	
1/12/2015	10/11/2019	Ocean Medicines	Objective is to establish a network of collaboration and knowledge-exchange bet...	Micro		Bioprospecting Knowledge Transfer	https://cordis.europa.eu/...	H2020	
1/4/2015	1/12/2019	NOMORFILM	Novel marine biomolecules against biofilm - application to medical devices.	Micro		Bioprospecting Healthcare	http://www.nomorfilm.e...	H2020	
4/1/2015	1/3/2021	ALKENANE	Algal Lipids: the Key to Earth Now and ancient Earth	Micro		Bioprospecting LCA		EIC	
4/1/2014	1/3/2018	WISGATFORBIODIESEL	X-ray Crystallographic, Structural, and Biochemical Studies of Three Wax Ester Syn...	Micro		Bioprospecting	https://cordis.europa.eu/...	FP7	
10/1/2013	10/9/2017	TriForC	A pipeline for the discovery, sustainable production and commercial utilization of...	Micro		Bioprospecting Biorefinery		FP7	
5/1/2011	10/4/2014	MARINE FUNGI	Natural products from marine fungi for the treatment of cancer	Macro		Bioactives Healthcare Bioprospecting	https://cordis.europa.eu/...	FP7	
3/1/2011	8/2/2014	BAMMBO	Sustainable production of biologically active molecules of marine based origin	Micro		Bioactives LCA Bioremediation Bioprospecting	https://cordis.europa.eu/...	FP7	
12/1/2010	10/11/2013	SEACAL	Seaweed Enzymes and Cells for Innovative Applications	Micro		Bioremediation		FP7	

EU4Algae Project Database / Portfolio

Horizon Europe	C-FAARER	LOCALITY	BOOSTER	IMPRESS	NOVAFOODIES
WoTe-Agoprene START: 1/7/2023 END: 30/6/2024 DESCRIPTION: Agoprene - biofoams for the future furniture MICRO/MACRO: Macro TOPIC/TAG: Business Development Biopoly EU CONTRIBUTION: €75,000.00 PROGRAMME: HEU	C-FAARER START: 1/6/2023 END: 31/5/2025 DESCRIPTION: Community-driven Farming for the Atlantic and Arctic sea basins through REGeneRative aquaculture MICRO/MACRO: Macro TOPIC/TAG: Governance CLLD Bioremediation EU CONTRIBUTION: €1,000,002.50 PROGRAMME: HEU	LOCALITY START: 1/6/2023 END: 30/6/2027 DESCRIPTION: LOCALITY - Nature-positive alGae-based Food, agriCulture, Aquaculture and textile products made in North and Baltic Sea ... MICRO/MACRO: Both TOPIC/TAG: Business Development Aquacul EU CONTRIBUTION: ... PROGRAMME: HEU	BOOSTER START: 1/5/2023 END: 30/4/2027 DESCRIPTION: BOOSTING DROUGHT TOLERANCE IN KEY CEREALS IN THE ERA OF CLIMATE CHANGE MICRO/MACRO: Macro TOPIC/TAG: Biogeochemistry / Bioengineer... EU CONTRIBUTION: ... PROGRAMME: HEU	IMPRESS START: 1/5/2023 END: 30/4/2027 DESCRIPTION: INNOVATIVE APPROACHES FOR MARINE AND FRESHWATER systems based on a sustainable value chain of marine and ... MICRO/MACRO: Macro TOPIC/TAG: Food Business Development EU CONTRIBUTION: ... PROGRAMME: HEU	NOVAFOODIES START: 1/5/2023 END: 30/4/2026 DESCRIPTION: Demonstration of innovative functional food production systems based on a sustainable value chain of marine and ... MICRO/MACRO: Macro TOPIC/TAG: Food Business Development EU CONTRIBUTION: ... PROGRAMME: HEU



Presence in key conferences and events



ALGÆUROPE 2022
13 - 15 • DECEMBER • ROME



ALGÆUROPE 2023
12-15 • DECEMBER • PRAGUE



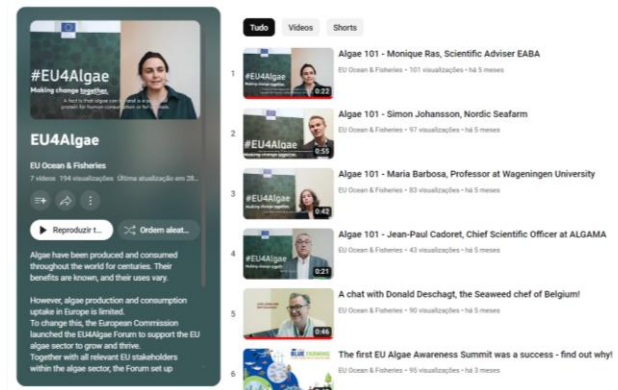
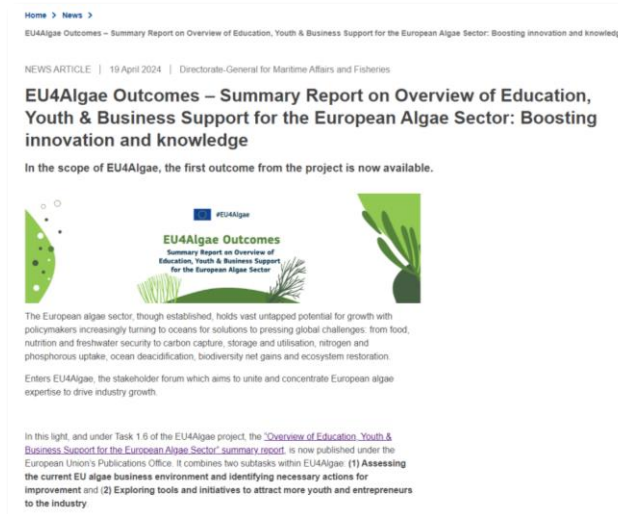
13th International Seaweed Conference EU
Seagrass
18 - 20 JUNE 2024
TÓRSHAVN, FAROE ISLANDS



ALGÆUROPE 2024
10-13 • DECEMBER • ATHENS



Outcomes & Results



[EU4Algae Social Media Consumer's Campaign Recap: Cook, Share, Inspire – Discovering the Power of Algae - European Commission \(europa.eu\)](#)



Outcomes under preparation

- **Bioremediation potential of algae**
- How to integrate results **in existing marine water landscaping maps**
- **Restorative ocean farming** & use for offshore cultivation
- Verify high-potential algae products and possible **criteria, labels, and tools (LCAs)**, to assess the Environmental footprint of algae products & services
- Assess **social aspects related to the algae industry growth**
- Concise description of the **most pertinent remaining research & innovation topics**
- Data and knowledge supporting the development of **a sustainable, environmentally friendly, and safe EU algae industry**

EU4Algae



**WG 1- Macroalgae
Production**
Adrien Vincent



**WG 2 -
Microalgae production**
Jean Paul Cadoret



WG 3 - Algae for Food
Vitor Verdelho



WG 4 - Algae for Feed
Tina Maria Seligmann



**WG 5 - Ecosystem Services
& Bioremediation**
Efthalia Arvaniti



**WG 6 - Materials, Chemicals,
Bioactives & Algae Biorefining**
Gabriel Acien



**WG 7 - Youth &
Entrepreneurship**
Frederick Bruce



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EU Algae Initiative



Brussels, 15.11.2022
SWD(2022) 361 final

COMMISSION STAFF WORKING DOCUMENT

BLUE BIOECONOMY – TOWARDS A STRONG AND SUSTAINABLE EU ALGAE SECTOR

Accompanying the document

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

{COM(2022) 592 final}



“Stronger EU algae farming and processing sectors can respond to demand in a wide range of industries, starting with food, animal feed or bio-based plastic to cosmetics, pharmaceuticals or biofuels. Algae biomass can serve as an alternative to raw materials that now are usually fossil-fuel-based, which is very much in line with the European Green Deal's decarbonisation ambition. With this initiative we approach the EU algae sector in such a holistic way as never before”

Virginijus Sinkevičius, Commissioner for Environment, Oceans and Fisheries



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EU Algae Initiative

European Parliament

2019-2024



TEXTS ADOPTED

P9_TA(2023)0205

Towards a strong and sustainable EU algae sector

European Parliament resolution of 11 May 2023 towards a strong and sustainable EU algae sector (2023/2547(RSP))



“The European Parliament,

- Agrees that there is untapped potential in this Sector
- Recognises the need for Member States to integrate algae cultivation into their national or regional spatial plans under the Directive for Maritime Spatial planning
- Calls for a more coherent regulatory framework for the sector, encouraging Member States to set up ‘one-stop shops’ for actors interested in starting or expanding algae farming operations
- Calls on the Commission to provide adequate funding for the EU algae sector, and on the Member States to continue encouraging the promotion of algae farming
- [...]

“ 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*

EU Algae Initiative

IMPROVING THE GOVERNANCE FRAMEWORK AND LEGISLATION



5 actions

SUPPORT THE IMPROVEMENT OF THE BUSINESS ENVIRONMENT



6 actions

CLOSE KNOWLEDGE, DATA, TECHNOLOGICAL AND INNOVATION
GAPS



9 actions

INCREASE SOCIAL AWARENESS AND MARKET ACCEPTANCE OF
ALGAE AND ALGAE-BASED PRODUCTS



3 actions



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EU Algae initiative policy actions

adopted on 15 November 2022

EU4Algae direct contributions

ACTION 1 - New algae **farmers'** toolkit



ACTION 2 - Member States to include **seaweed farming** and sea multi-use **in maritime spatial plans**



ACTION 3 - Develop standard **testing, quantification and extraction methods for algae ingredients and contaminants** (CEN)



ACTION 4 - Algae **biofuel standards and a certification methodology** for algae-biofuel products

ACTION 5 - Market **potential, efficiency and safety** of algae-based materials when used **in fertilising products**



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EU Algae initiative policy actions

adopted on 15 November 2022

EU4Algae direct contributions

ACTION 6 - Market-stimulating mechanisms to support and **promote the transfer of technology from research to market;**



ACTION 7 - Develop specific guidance to promote **replacing fish-based feed with algae-based feed;**



ACTION 8 - **Use of nutrients and CO2** from various sources for microalgae cultivation; life cycle assessment of the **environmental and climate impact of algae cultivation and production**



EU Algae initiative policy actions

adopted on 15 November 2022

EU4Algae direct contributions

ACTION 9 - Pilot project(s) supporting the **reorientation of fishers' careers from fishing to regenerative ocean farming**;



ACTION 10 - Support for **innovative SMEs and projects through the scaled-up activities of the BlueInvest Platform**;



ACTION 11 - Promoting **innovative interregional partnerships through smart specialisation strategies and the 3S Sustainable Blue Economy Platform**



EU Algae initiative policy actions

adopted on 15 November 2022

EU4Algae direct contributions

ACTION 12 - Integrate algae sector **knowledge** into the **EU aquaculture assistance mechanism**;

ACTION 13 - Study to gain better knowledge of **seaweed climate change mitigation** and the role of **seaweed as blue carbon sinks**;

ACTION 14 - **Seaweed biodiversity** - European **seaweed strains in a centralised biobank network** or databank;

ACTION 15 - Maximum **levels of contaminants and iodine in algae** and/or the adoption of a new recommendation for algae species



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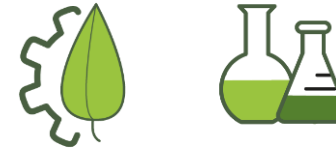
EU Algae initiative policy actions

adopted on 15 November 2022

EU4Algae direct contributions

ACTION 16: Monitoring schemes and **available data on seaweed harvesting from the wild and from beachcast**

ACTION 17: Algae processing systems and novel **production methods** to make circular bio-based products for multiple applications;



ACTION 18: Development of **better and scalable algae cultivation systems or methods of macroalgae and microalgae production systems**;



ACTION 19: Address **algae biofuel-specific technological and systemic challenges** and identify market take-up measures

ACTION 20: Overview of the **availability of algae-related data** (e.g. production, employment, turnover and other socioeconomic data)



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EU Algae initiative policy actions

adopted on 15 November 2022

EU4Algae direct contributions

ACTION 21: Consumer awareness and communication campaign(s) to promote the variety of applications and benefits of algae-based products.



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ACTION 22: Raise the sustainability profile of algae-based products in the EU sustainable food labelling framework,



ACTION 23: Promote awareness-raising actions for schools and universities (EU4Ocean).



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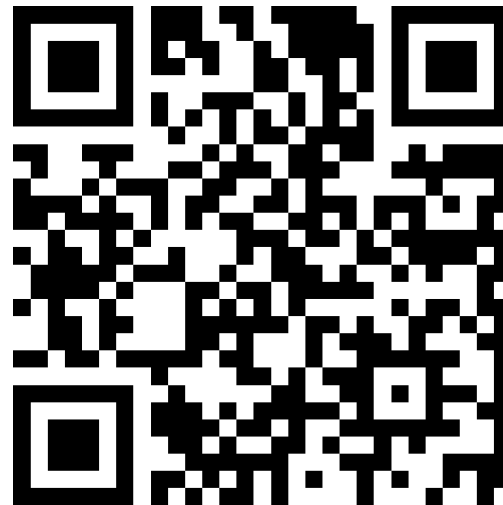
EU support to the algae sector

recent developments

Felix Leinemann
Head of Blue Economy Unit from DG MARE

10-minute BREAK

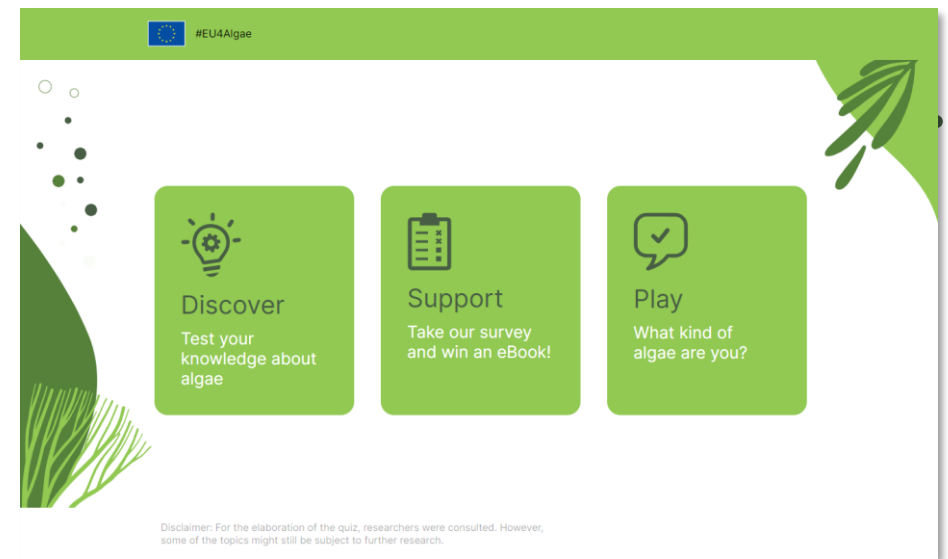
When you are back, please
connect to the Slido



[Link](#)

Interactive platform

EU4Algae Interactive Platform website



Newsletter

EU4Algae Newsletter

EU4Algae Newsletters



Stay up to date with all the innovations in Algae.

New issues will be added periodically.

[Newsletter #1](#)

May 2023

[Newsletter #2](#)

November 2023

[Newsletter #3](#)

June 2024





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Save the Date

EU4Algae Meeting in *Athens*

9 December

Divani Caravel Hotel

Stay in touch

DG MARE



[@EU_MARE](#)



[@ocean_eu](#)



[EU Maritime & Fish](#)



[EU4Algae](#)

CINEA



[@cinea_eu](#)



[CINEA - European Climate, Infrastructure and Environment Executive Agency](#)

Thank you



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