# **GRASS Conference Experts survey**

06 - 07 May 2021

Poll results



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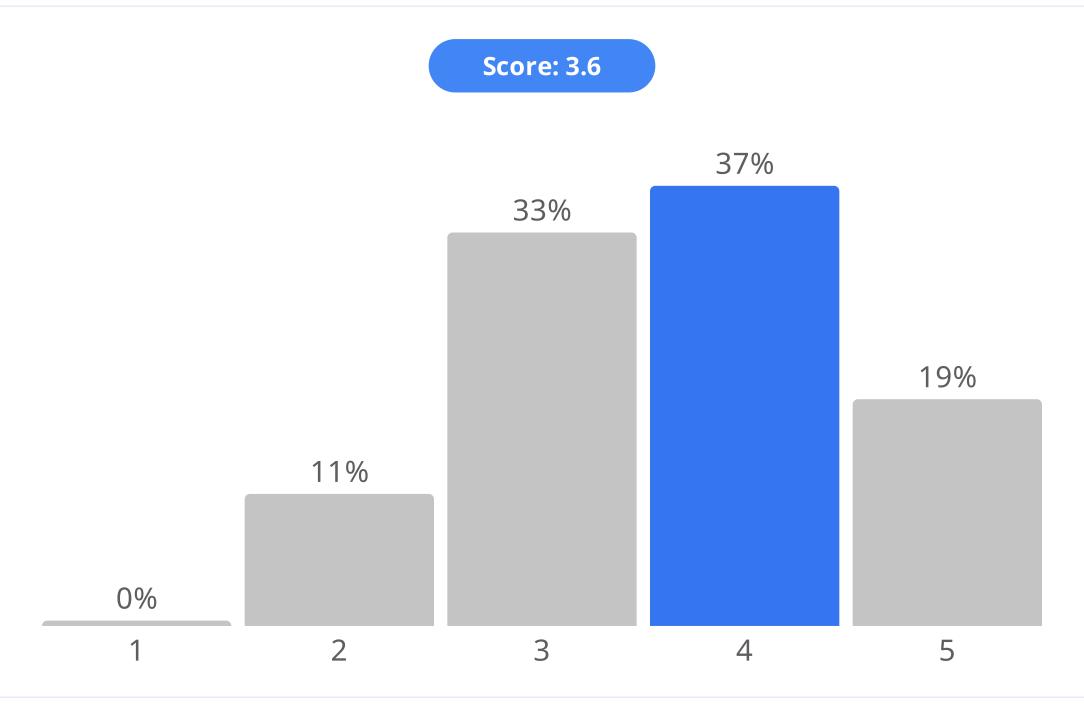
Survey



**Survey (1/16)** 

### 0 2 7

## How would you rate the prospects of macroalgae production and use in the BSR? Good/bad?



**Survey (2/16)** 

### 0 3 3

# For what purpose do you think macroalgae cultivation makes sense in the Baltics? (1/2)

1.	Ecosystem Services	
		7.24
2.	Biotechnology (pharma/cosmetics/nutraceuticals)	
		6.55
3.	Food	
		6.42
4.	Integrated Multi-Trophic Aquaculture	
		5.06
5.	Multi-Use	
		5.03

**Survey (2/16)** 

### 0 3 3

# For what purpose do you think macroalgae cultivation makes sense in the Baltics? (2/2)

6.	Feed	
		4.70
7.	Job creation	
		3.91
8.	Fertiliser	
		3.55
9.	Materials	
		3.12

#### Survey (3/16)

#### If other what?



- Bio- based products
- Packaging
- Restoration

#### Survey (4/16)

### 0 3 3

## Rank these improvements needed in the Baltic seaweed sector.

(1/2)

1.	Development / adaptation of cultivation & harvesting technologies	
		6.64
2.	Licensing procedures	
		5.42
3.	Consumer awareness	
		5.15
4.	Start-up ecosystems	
		3.76
5.	Cooperative farm structures	
		3.52

#### Survey (4/16)



## Rank these improvements needed in the Baltic seaweed sector.

(2/2)

Biorefining technologies	
	3.30
Acknowledgement from large industries	2.40
	3.18
Agri-/industrial symbioses	3.12
	J, 1 Z
Cross-cutting technologies, e.g. mechanical dryers, AI, 101	2.70
Other	
	1.85

#### **Survey (5/16)**

#### If other, what?

0 0 7

- Politicians' awareness
- A systemic approach is needed to understand the whole integrated marine system and its interrelation with land. So a multilevel approach through systems innovation is the way to act on the necessary levers of change to bring seaweeds as a new component of the business models with positive impact at environmental and socioeconomic level.
- Legislation and valorisation

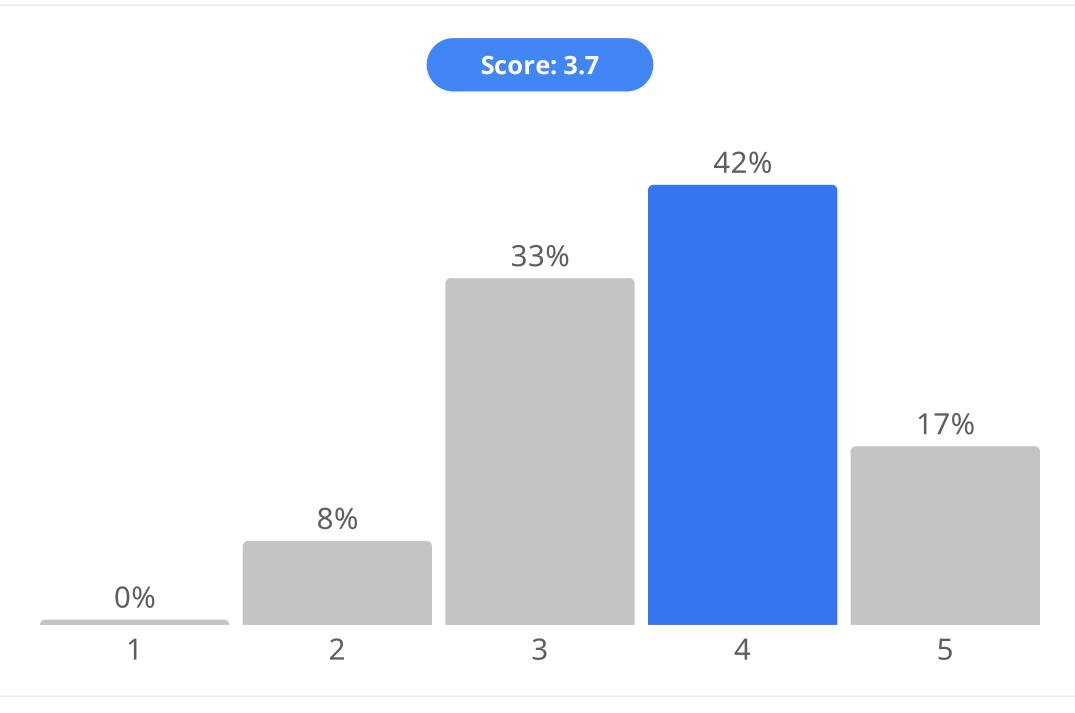
- of the eco-system services from a holistic perspective
- Regulatory
- Funding. Access to "cheap" money, without selling your company to big players
- Learn from asia
- Space competition



Survey (6/16)

### 0 1 2

# NEW! How do you rate collecting beach-wrack as a promising activity to reach "Good Environmental Status"?



**Survey (7/16)** 



### What do we need to develop a beach-wrack market at Baltic level? e.g. an app?

Biorefinery

Communication

new products App

Role on ecosyst

Survey (8/16)

### 0 3 1

# POLICY PAPER: Prioritise 5 focus areas of the macroalgae policy paper from your perspective (1/3)

1.	Ecosystem services	
		4.23
2.	Sustainable Development Goals	
		3.45
2.	Legislation	
		3.45
4.	Business development (products , startups)	
		2.36
5.	Research	
		2.10

Survey (8/16)

### 0 3 1

# POLICY PAPER: Prioritise 5 focus areas of the macroalgae policy paper from your perspective (2/3)

6.	Socio-economic benefits	
		2.07
7.	Baltic-specific needs & benefits	
		2.03
8.	Pilot & demonstration sites	
		1.87
9.	Public Awareness & Social Acceptance	
		1.52
10.	Technology Transfer	
		1.48

Survey (8/16)

### 0 3 1

0.29

# POLICY PAPER: Prioritise 5 focus areas of the macroalgae policy paper from your perspective (3/3)

11.	Funding	
		1.42
12.	Project Development	
		0.32
4.0		
13.	Network & capacity building	

Survey (9/16)

#### If other, who?

0 0 1

Industry

Survey (10/16)



## Who should be the target end-user of the policy paper?

(1/2)

1.	Policy makers	
		2.23
2.	National and/or regional authorities	
		1.97
3.	Planning authorities	
		1.29
4.	Funding programmes	
		1.19
5.	R&D strategy offices of Universities	
		0.42

**Survey (10/16)** 



## Who should be the target end-user of the policy paper?

(2/2)

5. Other



**Survey (11/16)** 



# More specifically, according to you, which of the following topics should be added in the policy paper? (1/3)

1. Seaweed cultivation in the Baltics and environmental benefits, e.g. internal nutrient load reduction.

3.16

2. Baltic-wide seaweed and socio-economic benefits e.g. new opportunities for lost fisheries jobs.

2.84

3. Develop research and innovation agendas (national, RIS3) for Baltic seaweed production and use e.g. selection of sites, species, technologies, combinations, product markets.

#### **Survey (11/16)**



# More specifically, according to you, which of the following topics should be added in the policy paper?

(2/3)

4. Raise awareness on environmental and socio-economic benefits and opportunities, e.g. campaigns, citizen science, cookbooks, roadshows.

2.45

5. Combinations of seaweed farming with other uses, e.g. tourism or off-shore wind farms.

2.16

6. Transfer of good practices from other sectors or regions.

1.61

7. Development of short Baltic food value chains with seaweed (post-COVID19).

**Survey (11/16)** 

(3/3)



# More specifically, according to you, which of the following topics should be added in the policy paper?

8. IMTA combinations with fish farming for nutrient compensation schemes.

0.74

9. Other, something is missing.



10. I do not agree with any.

#### **Survey (12/16)**

#### If other topic, what?

- LCA Environmental Footprint
   Carbon Footprint Biotechnology
- I believe the main bottleneck is to produce clean, market-ready biomass in the Baltic Sea. For species, which are already produced in other areas (Saccharina, Palmaria), the production methods have to be adapted to Baltic conditions, where
- growth is lower due to lower salinities while fouling pressure is still high. For other species (Fucus, Cladophora, Furcellaria), commercial culture methods are yet to be developed. So the main focus should be on culture
- Industrial challenges

method development.



Survey (13/16)



## What do YOU value in a new Baltic macroalgae WG?

(1/3)

1.	Knowledge exchange and match-making	
		8.27
2.	Investigate technologies available in other regions that cobe transferred to the Baltic	ould
		4.18
3.	Connect Baltic farms internally and also externally at EU le	evel
		4.15
		1.10
4.	Collect data from operational seaweed farms and model d	lata
		4.06
		4.00
5.	Promote innovative and sustainable Baltic blue bioeconor products	ny
		3.70

**Survey (13/16)** 



### What do YOU value in a new Baltic macroalgae WG?

(2/3)

- 6. Provide mentors and support start-ups and SMEs and the Accelerator for Blue Growth
- 3.36
- 7. Increase visibility and access of relevant communication materials promoting benefits and opportunities of macroalgae
- 3.24

8. Lobby to include seaweed mariculture in MSP

- 3.21
- 9. Encourage formation & support local/regional cooperative structures

**Survey (13/16)** 



### What do YOU value in a new Baltic macroalgae WG?

(3/3)

10. Promote development of national roundtables

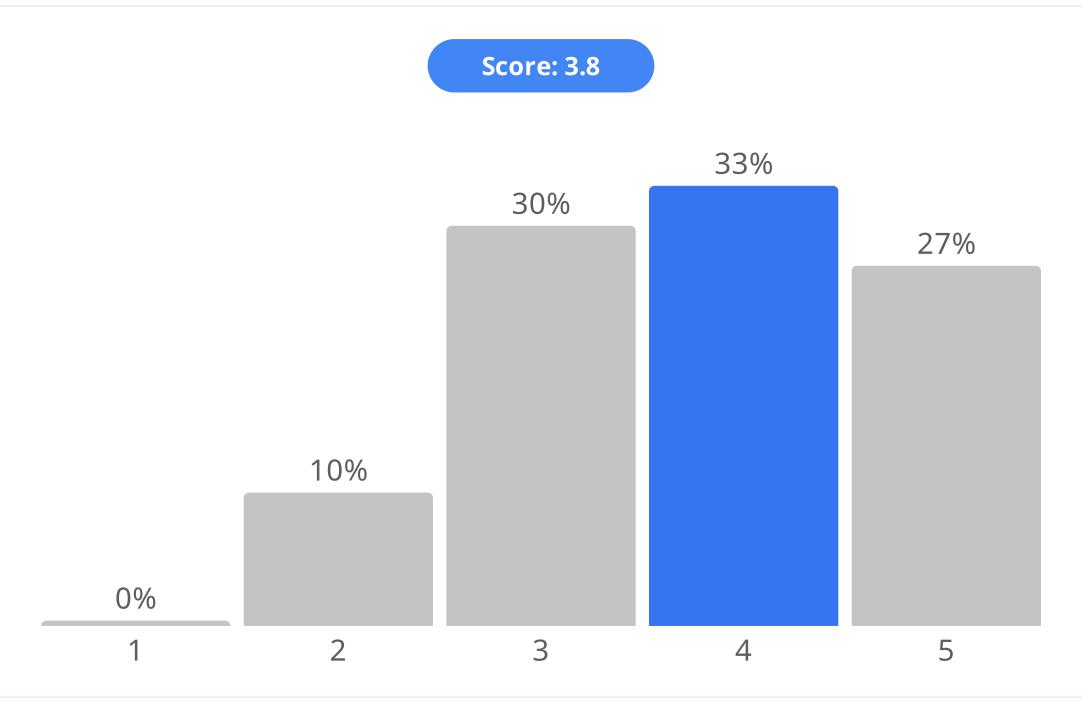
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11. Other

**Survey (14/16)** 

### 0 3 0

# Rate how likely or unlikely you will participate and contribute in the macroalgae Working Group meetings?



**Survey (15/16)** 



# Do you want to get involved in the preparation of this policy paper? If yes, you will be contacted again.

Yes, of course, this is relevant to me.

64 %

Yes, if only it is submitted to a scientific journal.

12 %

No thanks

24 %

#### **Survey (16/16)**



NEW! What else can you bring/ contribute to the WG? e.g. monitoring data, contacts in other regions/EU/Asia, project development, business support, mentoring of small companies, access to investors.

Research data

project/mentor

Init. other reg

Business suppor