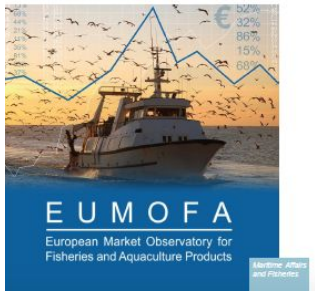
SUBMARINER Aquaculture Working Group Q2

Innovative & Sustainable Aquaculture in the Baltic

Agenda

- SUBMARINER Aquaculture Working Group
  - Frederick Bruce / SUBMARINER Network
- Finnish Aquaponic Society
  - Tobias Lipsewers / FAPS
- Natural Resources Institute Finland
  - Jouni Vielma / LUKE
- EUMOFA Blue Bioeconomy Report
  - Meredith Lloyd-Evans / BioBridge UK
- Discussion & Next Steps



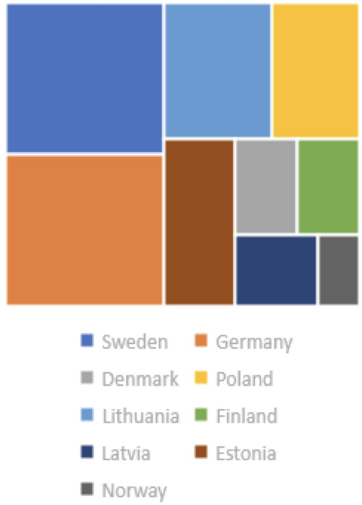
Contents

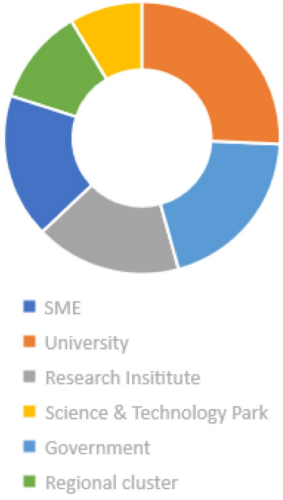
- About SUBMARINER
- Working Group definitions
- Horizon Europe
- Next steps

A Baltic-wide network

- **40** members
- **260** partner organizations
- **3000** actors throughout BSR
- **1700** institutions
- ca. **650** blue bioeconomy companies linked via SUBMARINER

The SUBMARINER Community





Goals

EU STRATEGY FOR THE BALTIC SEA REGION FLAGSHIP

MSP / Ocean Literacy / Multi-Use / Eco-Tourism / Cultural Heritage / Biotechnology / Biodiversity / Climate / Circular Bioeconomy / Pollution / Eutrophication

SUBMARINER Services

Actors & Match-Making

Data & Tools

Sub-regional activities

Access to Pilot sites & Facilities

Training & Capacity Building

Technology Development & Transfer

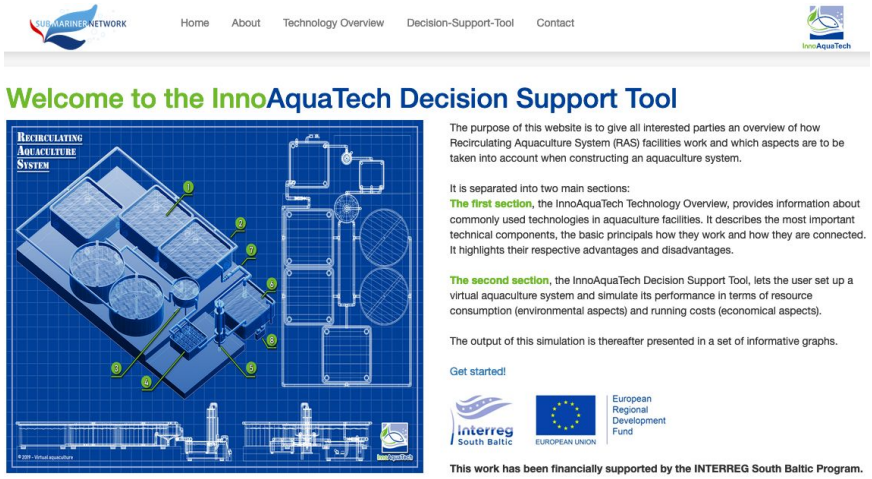
Finance & Funding

Regulation & Licensing

Awareness & Marketing

SUBMARINER Working Groups

- Blue Growth Accelerator
- Ocean Literacy Platform
- Marine Litter
- Mussels
- Macroalgae
- Aquaculture



aqua VIP

Interreg South Baltic

EUROPEAN UNION

European Regional Development Fund

Aquaculture WG

- **Bottom-up** approach
- Share **ideas**, **knowledge** & latest **developments**
- **Workshops**, study visits & **training** opportunities
- **Networking** & joint **projects**

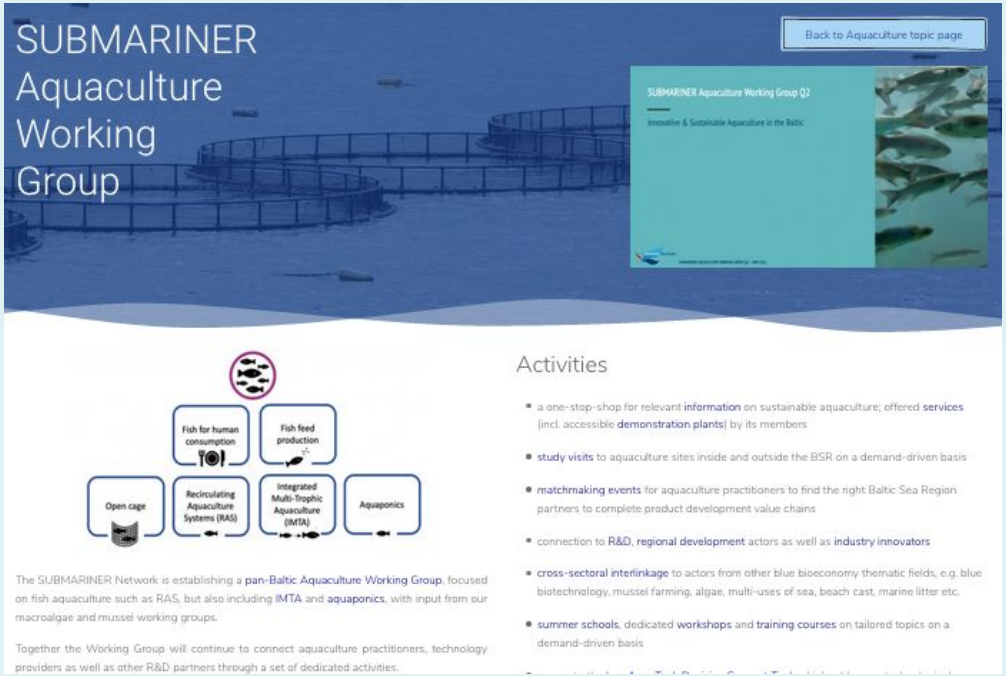
SUBMARINER NETWORK

Focus Areas

- RAS
- Sustainable feed
- Offshore cages & Multi-Use
- IMTA & Aquaponics

Add to a shared library

- Share **research**, **tools** & **resources** on the SUBMARINER website

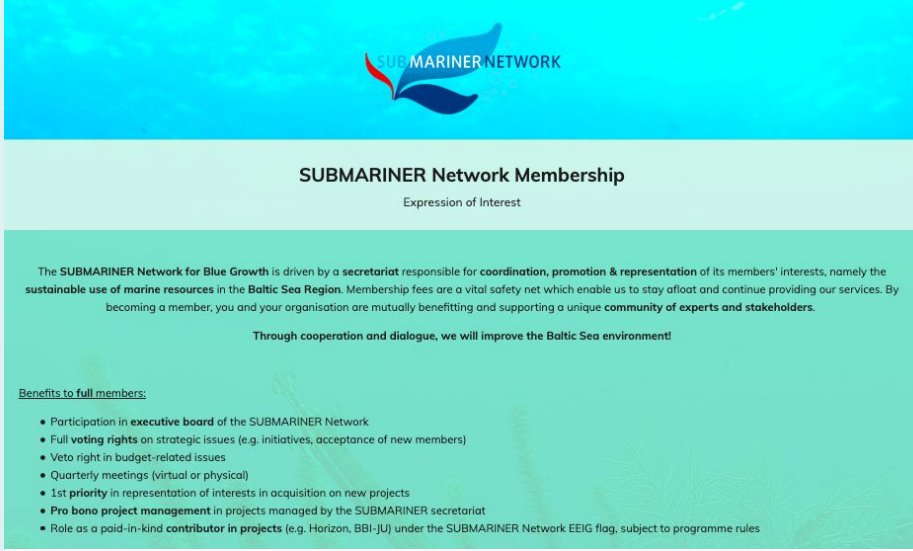


Benefits

- International **collaboration** platform
- **Unified** voice & **definitions** of aquaculture
- Identify **synergies** and **circular economies**
- Baltic **representation** on global issues

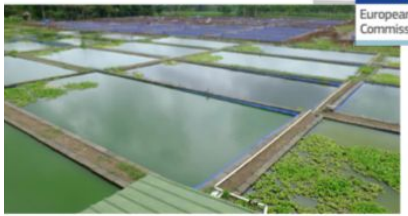
Become a SUBMARINER

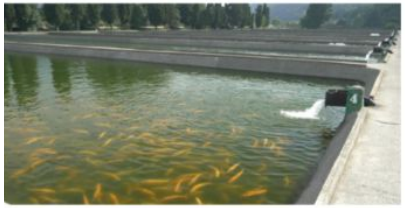
- Commitments from WG participants
- EATIP Mirror Platform
- Link in chat -->



SUBMARINER NETWORK

European Commission





FRESHWATER AQUACULTURE IN THE EU

EUMOFA

European Market Observatory for Fisheries and Aquaculture Products

Maritime affairs

APRIL 2021

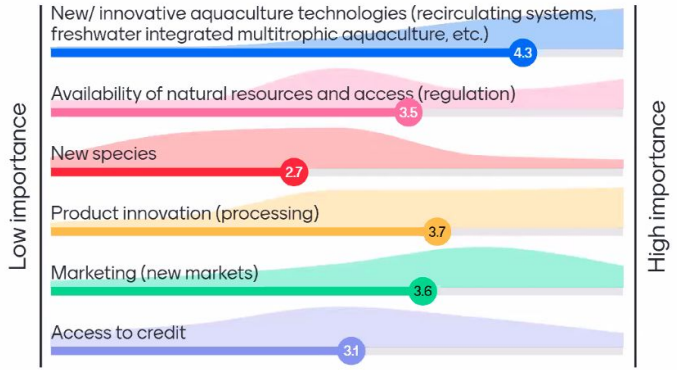
WWW.EUMOFA.EU

SUBMARINER NETWORK

Eastern Europe (Regional Priorities) – FAO GSA 2021

- Technical Innovation
- Environmentally Sustainable Production
- Governance
- Economic and social sustainability
- Disease control, animal health and animal welfare

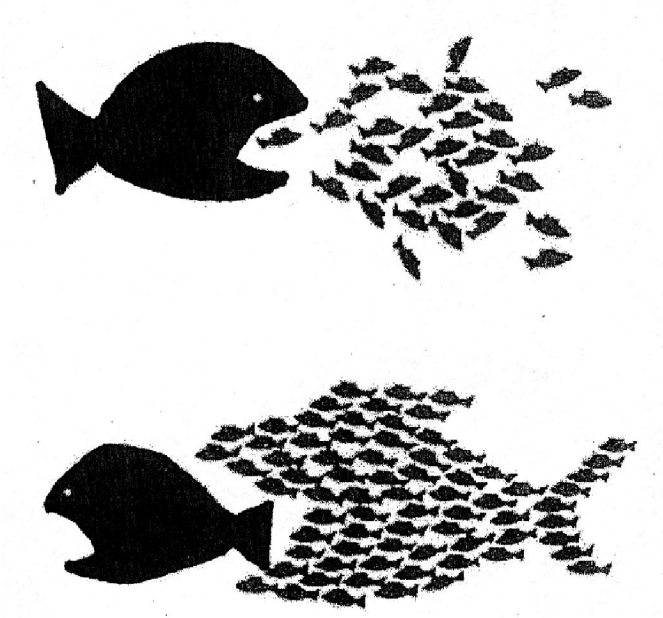
Which of these items will lead to the development of the freshwater aquaculture in the EU?



How can aquaculture be developed **sustainably** in the Baltic?

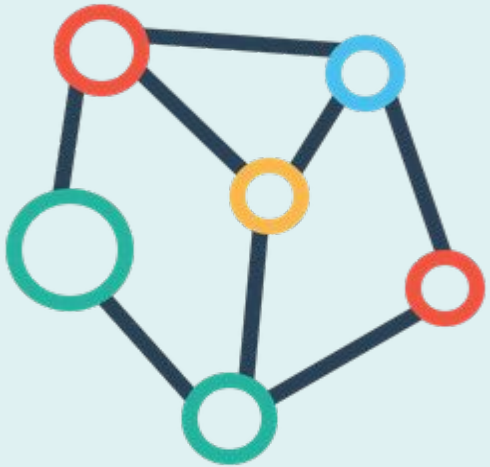
Build a network

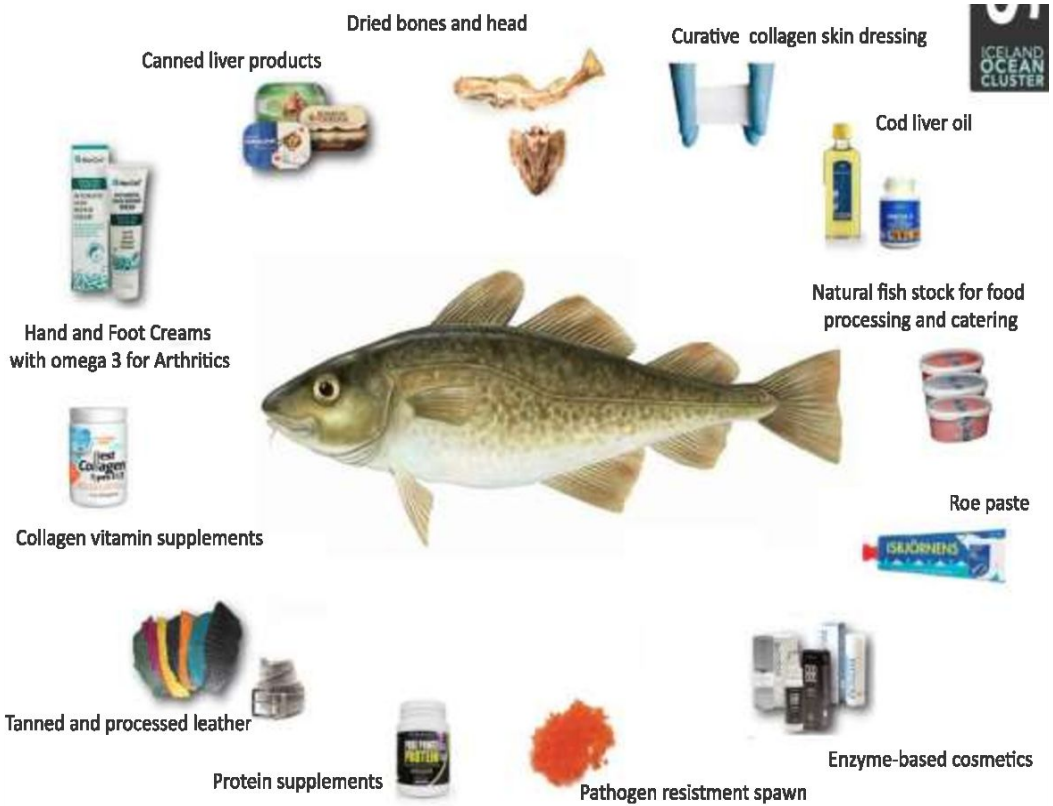
- The challenge is to make **multi-disciplinary** networks which are
  - Locally **equitable**
  - Socially **acceptable**
  - **Profitable**
  - Climate-**smart**
  - Shock **resilient** (e.g. financial / COVID19)



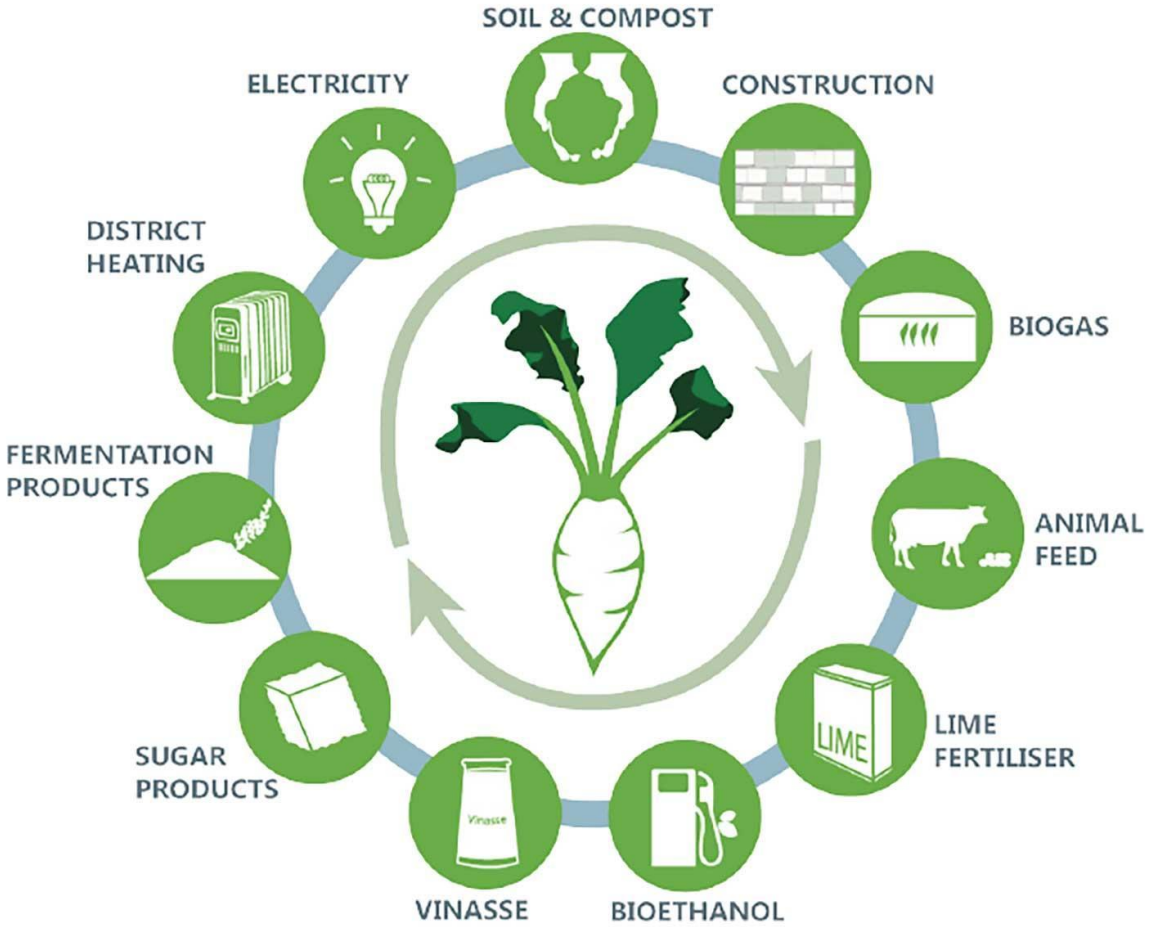
Scope

- Identify market entry points
- New products, species & technologies
- Holistic monitoring
- Industrial / agri-aqua symbioses
- Intensive monoculture to regenerative polyculture

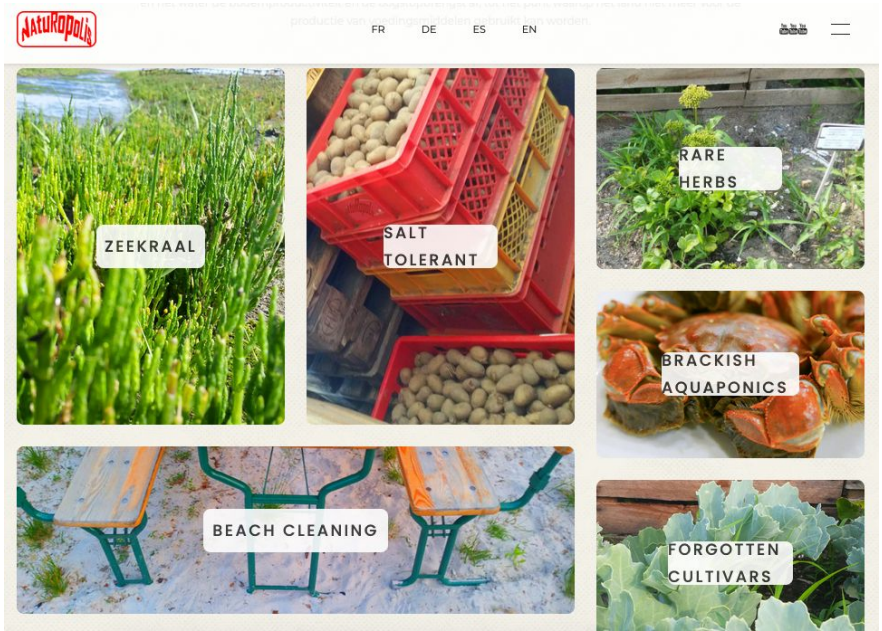




SUBMARINER NETWORK


SOIL & COMPOST
CONSTRUCTION
BIOGAS
ANIMAL FEED
LIME FERTILISER
BIOETHANOL
VINASSE
SUGAR PRODUCTS
FERMENTATION PRODUCTS
DISTRICT HEATING
ELECTRICITY
LIME
Vinasse

"Vegimariculture" = the next aquaculture subsector?



SUBMARINER NETWORK

Horizon Europe

- **Project** calls under **Cluster 6** (draft)

Cluster 6 Aquaculture 2021

Call Opens 15th April 2021 Closes 1st September 2021

Topic Ref Number	Topic Title	Type of Action	Budget (EUR million)	Expected EU contribution per Project (EUR million)	Number of Projects	TRL End
CL6-2021-FARM2FORK-01-01	Reaching the Farm to Fork target: R&I scenarios for boosting organic farming and organic aquaculture in Europe	RIA	4	4	1	6
CL6-2021-FARM2FORK-01-09	Sea to Fork transparency and consumer engagement	IA	10	5	2	6-8
CL6-2021-FARM2FORK-01-10	Digital transition supporting inspection and control for sustainable fisheries	RIA	10	5	2	3-6
CL6-2021-FARM2FORK-01-11	Filling knowledge gaps on nutritional, safety, allergenicity and environmental assessment of alternative proteins and dietary shift	RIA	11	1	1	5
CL6-2021-CircBio-01-08	Unlocking the potential of algae for a thriving European blue bioeconomy	IA	18	9	2	7
CL6-2021-COMMUNITIES-01-04	Socio-economic empowerment of the users of the sea	RIA	6	6	1	

Cluster 6 Aquaculture 2022

Call Opens 15th October 2021 Closes 15th February 2022

Topic Ref Number	Topic Title	Type of Action	Budgets (EUR million)	Expected EU contribution per Project (EUR million)	Number of projects	TRL End
CL6-2022-FARM2FORK-01-06	Integrated and sustainable **freshwater** bioeconomy: Combining aquaculture, biodiversity preservation, biotechnology and other uses	RIA	10	5	2	3-6
CL6-2022-FARM2FORK-01-07	Biosecurity, hygiene, disease prevention and fish welfare in aquaculture	RIA	12	6	2	3-6
CL6-2022-FARM2FORK-02-05	Innovative food from marine and freshwater ecosystems	IA	18	6	3	6-8
CL6-2022-CircBio-01-07	Marine microbiome for healthy oceans and a sustainable blue bioeconomy	RIA	18	9	2	3-5

Discussion

1. How can **freshwater** aquaculture & biotechnology be combined with **biodiversity preservation** in the Baltic Sea Region?
2. Which organisations are working on **biosecurity / hygiene / disease prevention / fish welfare** in aquaculture in the BSR?
3. Which **innovative** food sources can come from Baltic **marine** & **freshwater** ecosystems?

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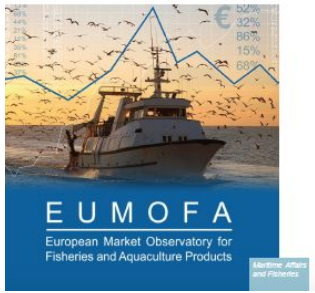

Short Break

See you at 15:10 CEST

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3. Which **innovative** food sources can come from Baltic **marine** & **freshwater** ecosystems?

Next Steps: Q3

- Show & tell:
  - Project proposal?
  - Invite a potential industry partner?
  - Promising business idea?
  - New research paper?
  - Baltic aquaculture news?