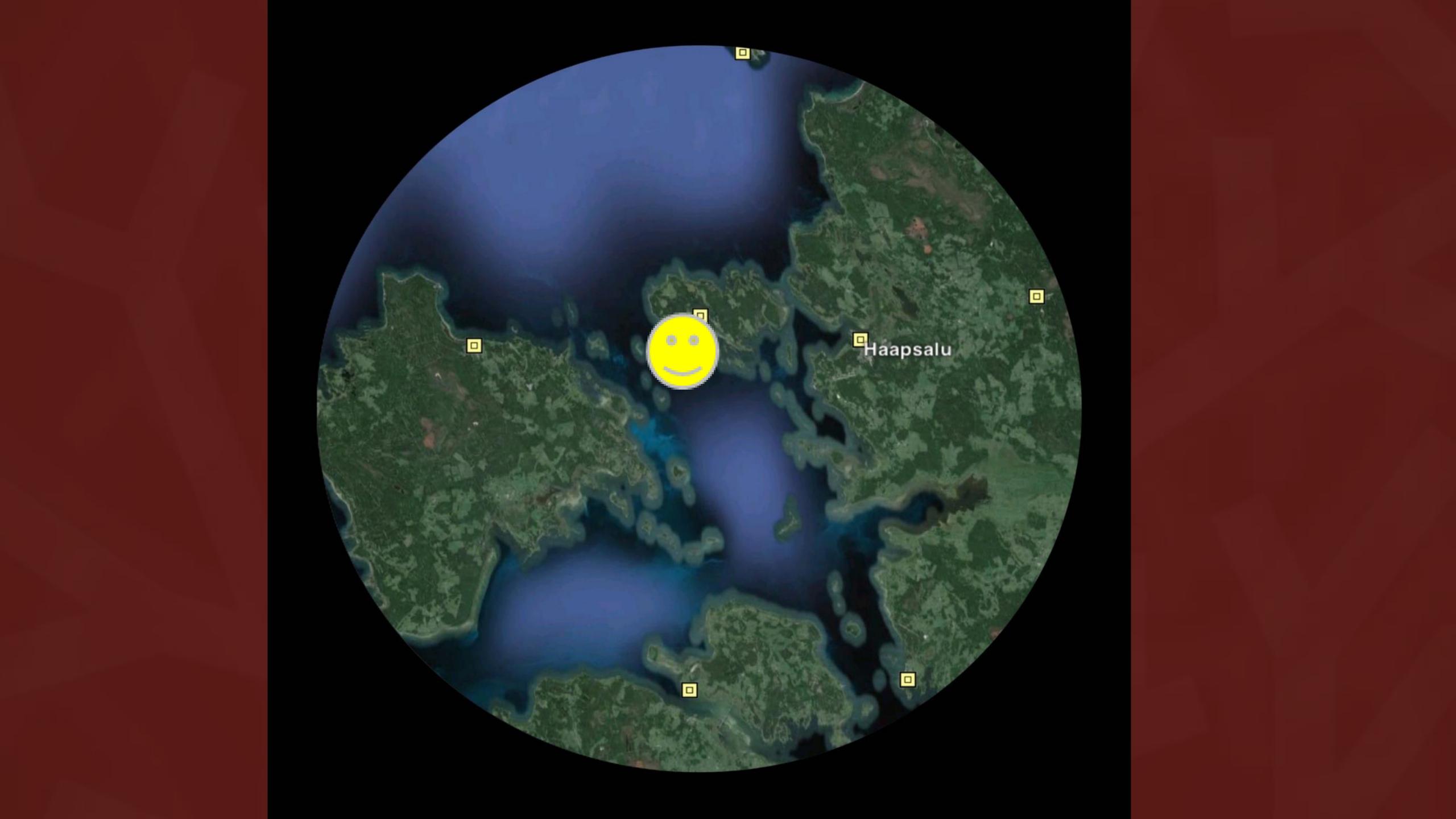


### EST-AGAR

#### BLUE GROWTH START-UP IN ESTONIA

SEAWEED AND MUSSEL INNOVATION





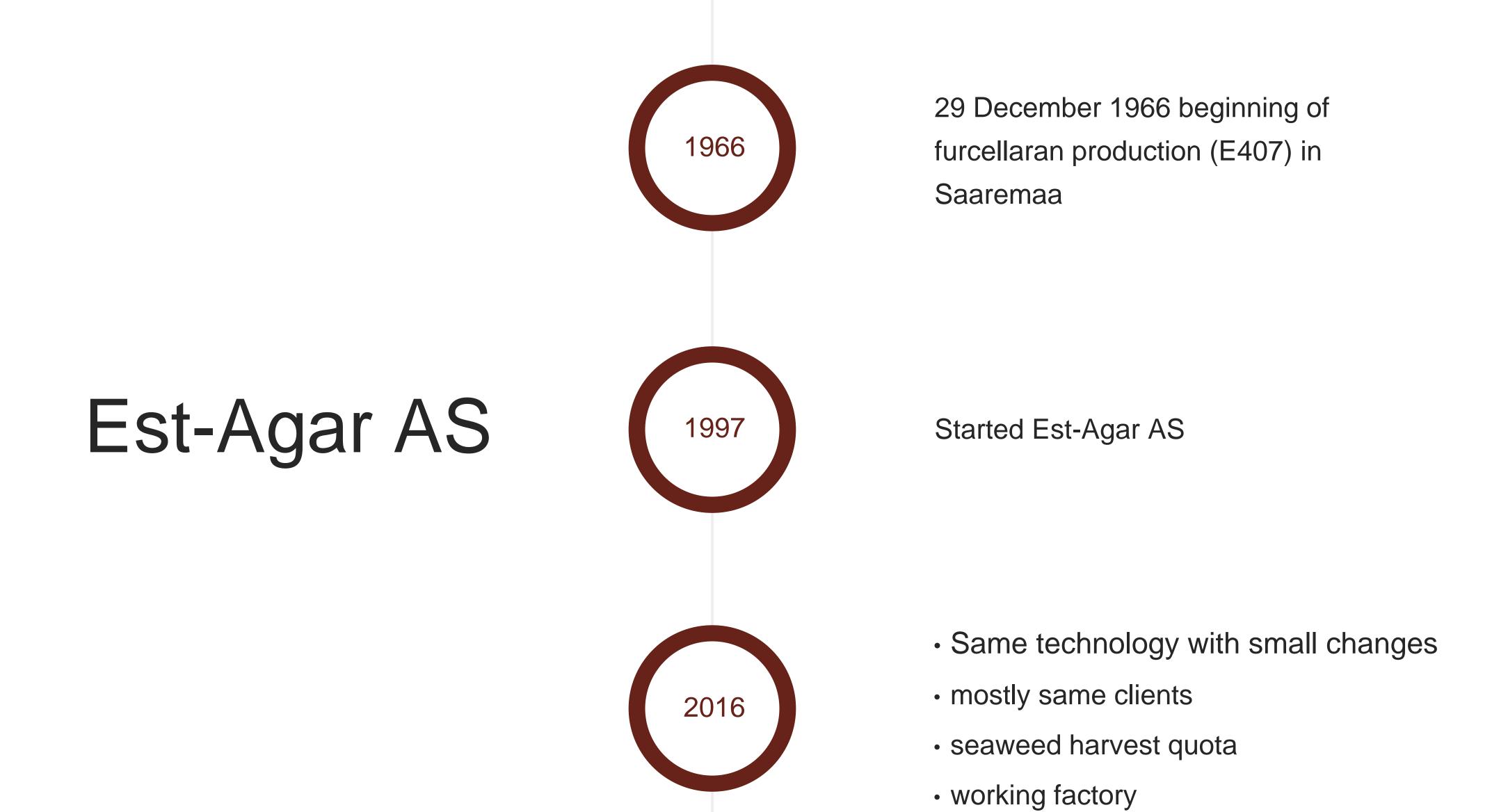






# Vormsi Agar OÜ 2012-2016

- Idea to use local seaweed in production
- A plan to build a factory on Vormsi
- Seaweed cultivation project
- Start with mussels
- Pilot production development plan for new technologies for production furcellaran,
   r-phycoerythrin and fertilizers
- Idea to buy Est-Agar AS



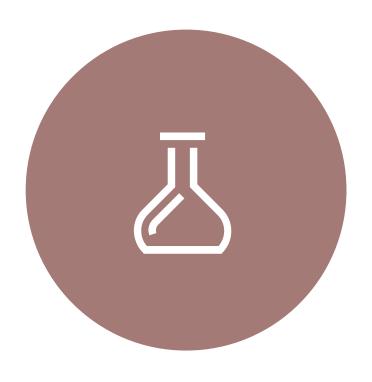


### Vormsi Agar + Est-Agar



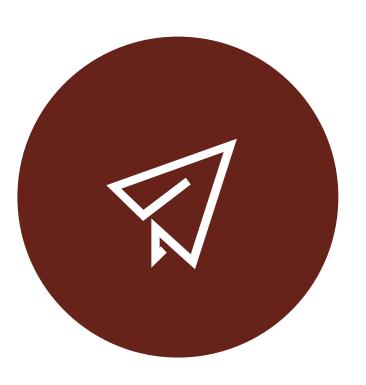
Esi-Agar

Production basis
Clients
Cash flow
People



Vormsi Agar

New technology
New products
Scientific partners



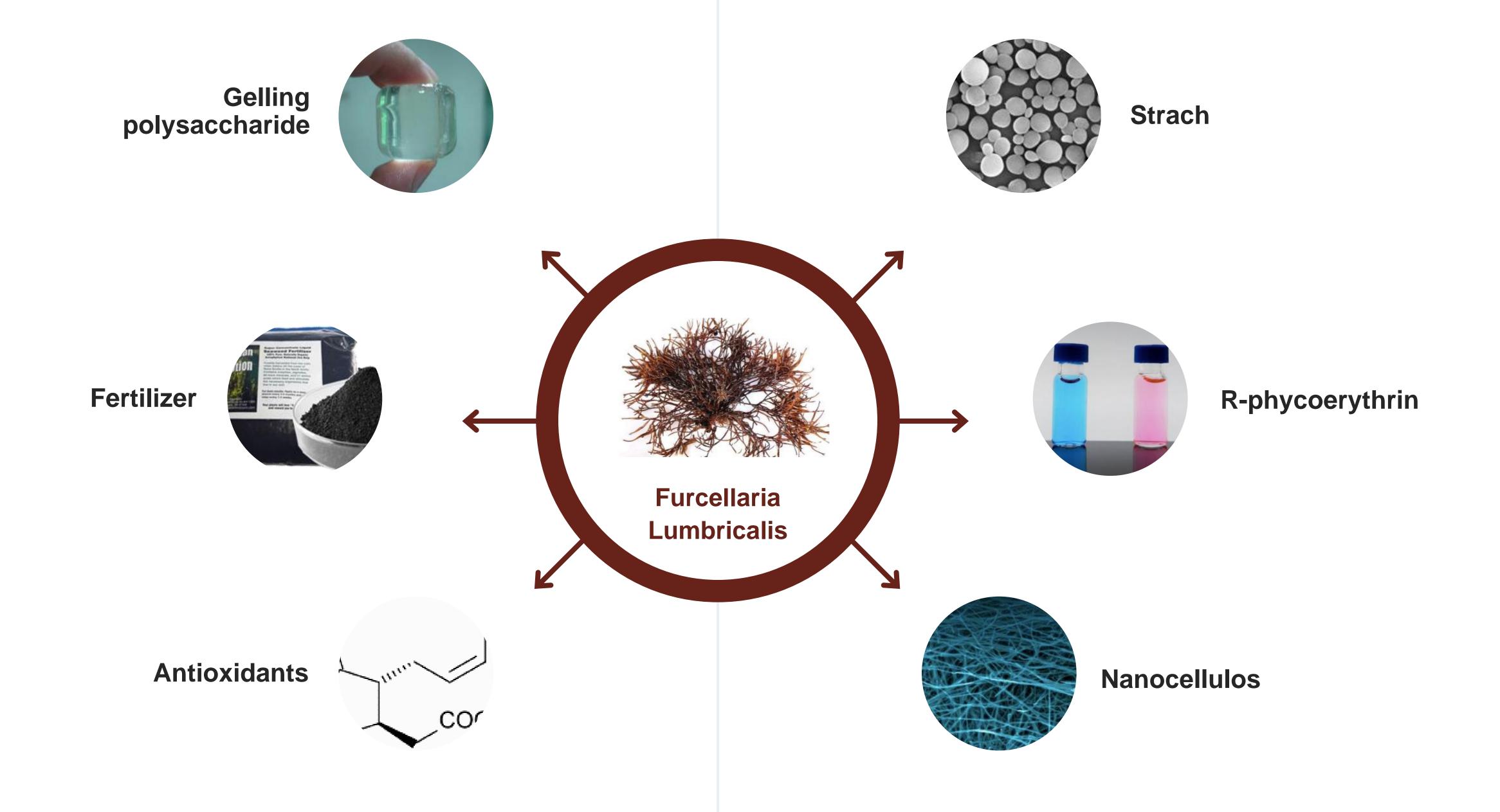
**Targets** 

Development
Growth
Active selling
Effective management

Est-Agar + Vormsi Agar

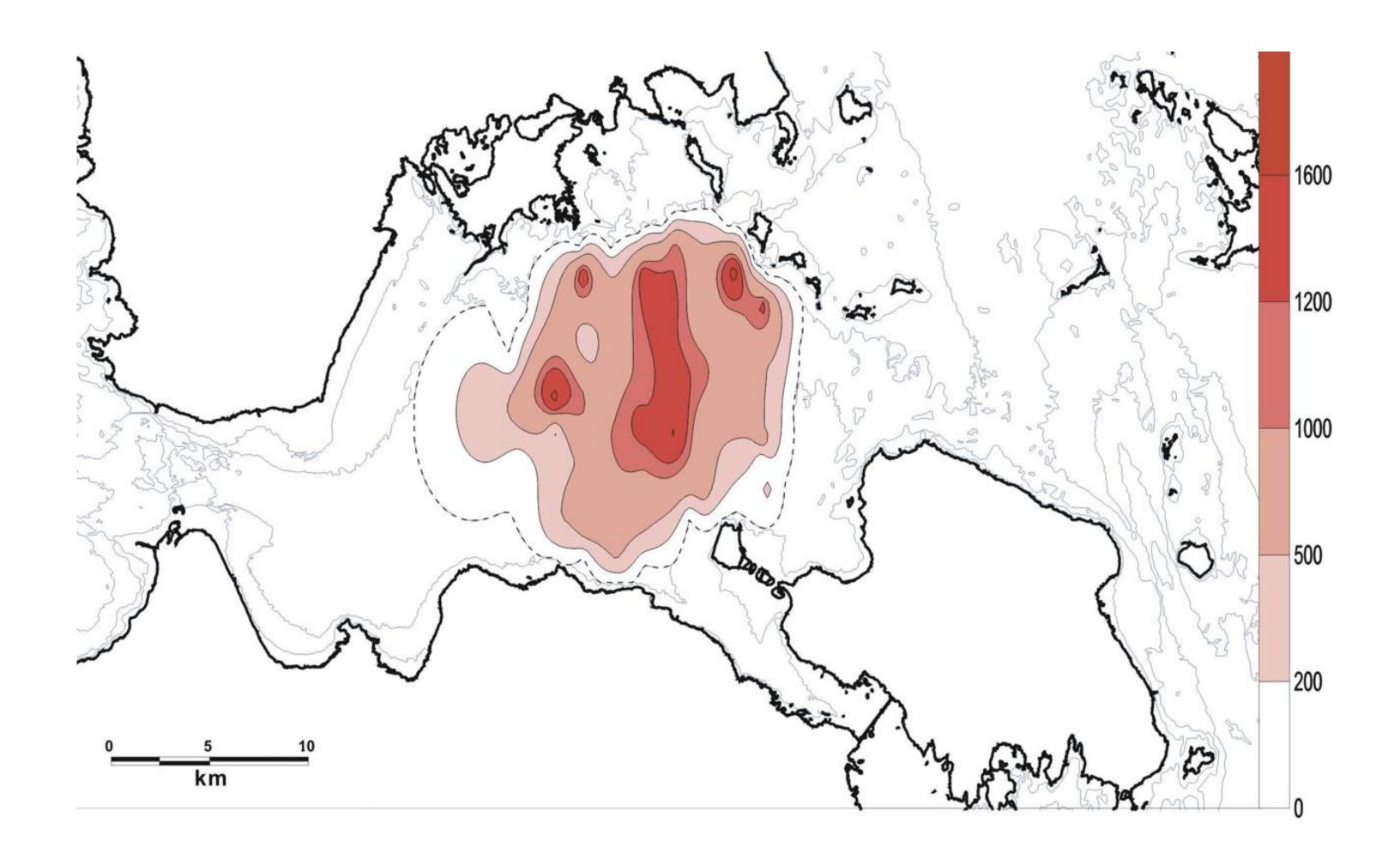
2030

Europe's leading, research based, local raw materials using **blue biotechnology** company









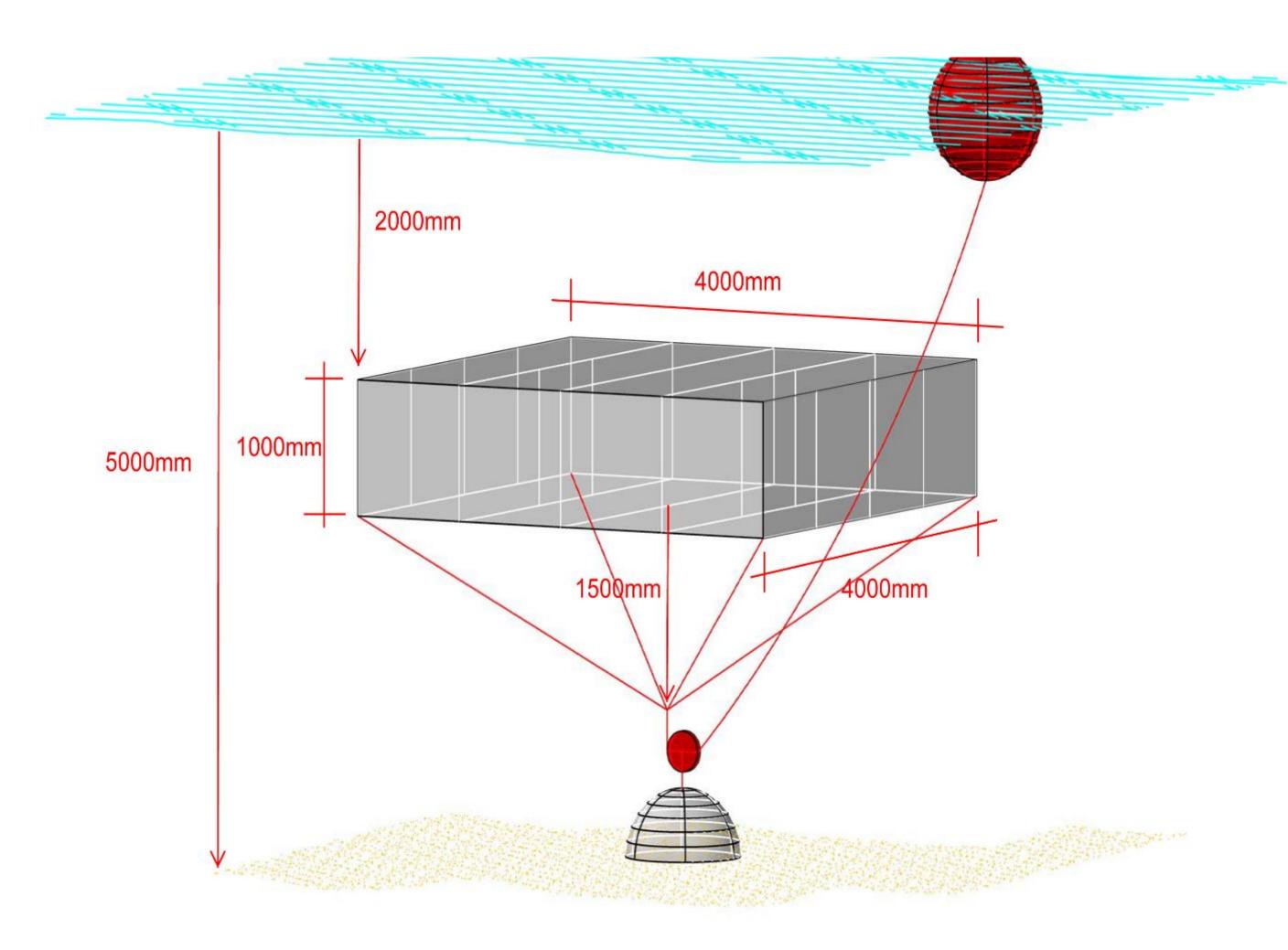
Kassari Bay – colorcode for *Furcellaria lumbricalis* biomass (g/m2)



- Catch quota 2000T
- Plan for 2019 a ~300T
- Coast collection 100 1800T
- Plan for 2019 a ~1200T

# Seaweed trawling and coast collection

Seaweed farming



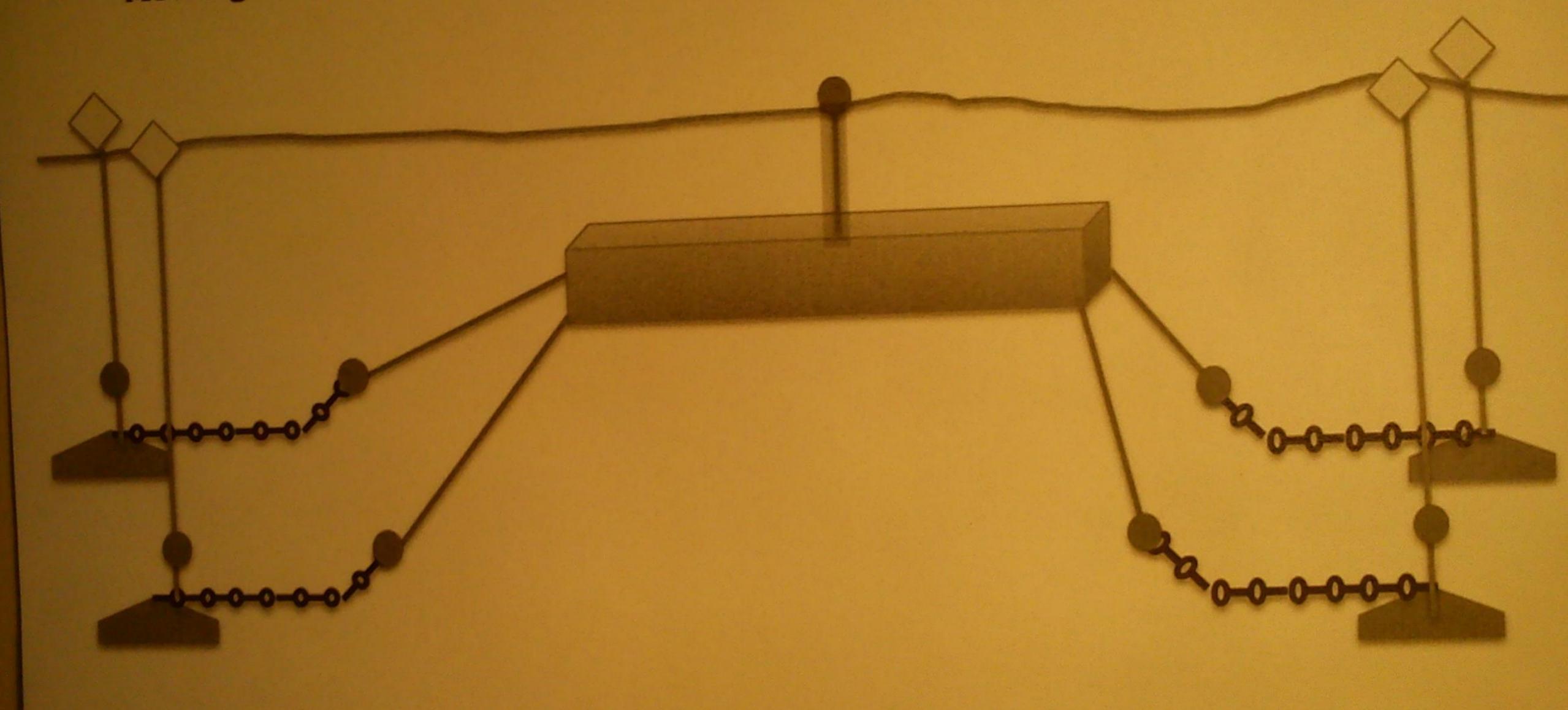






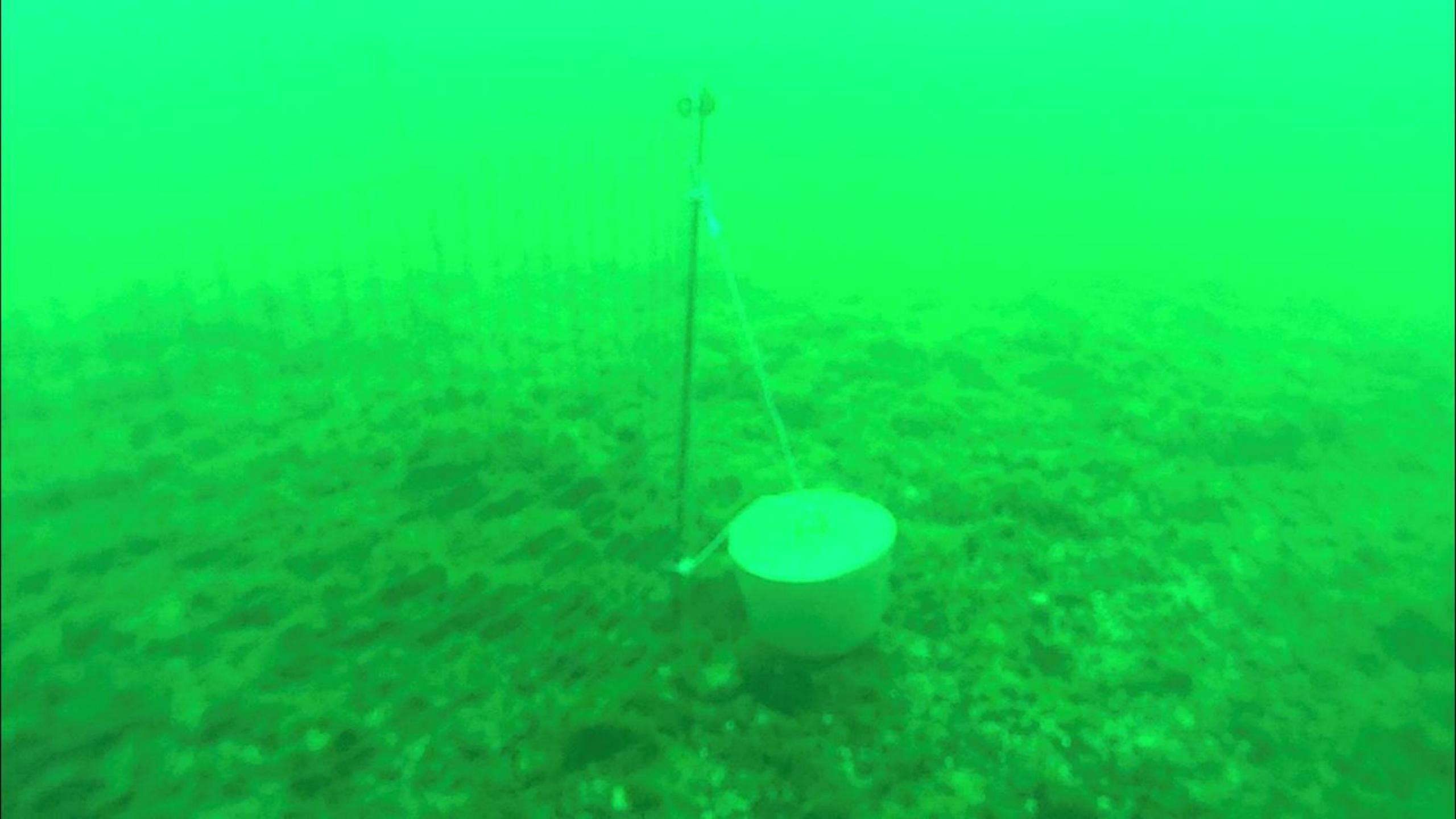


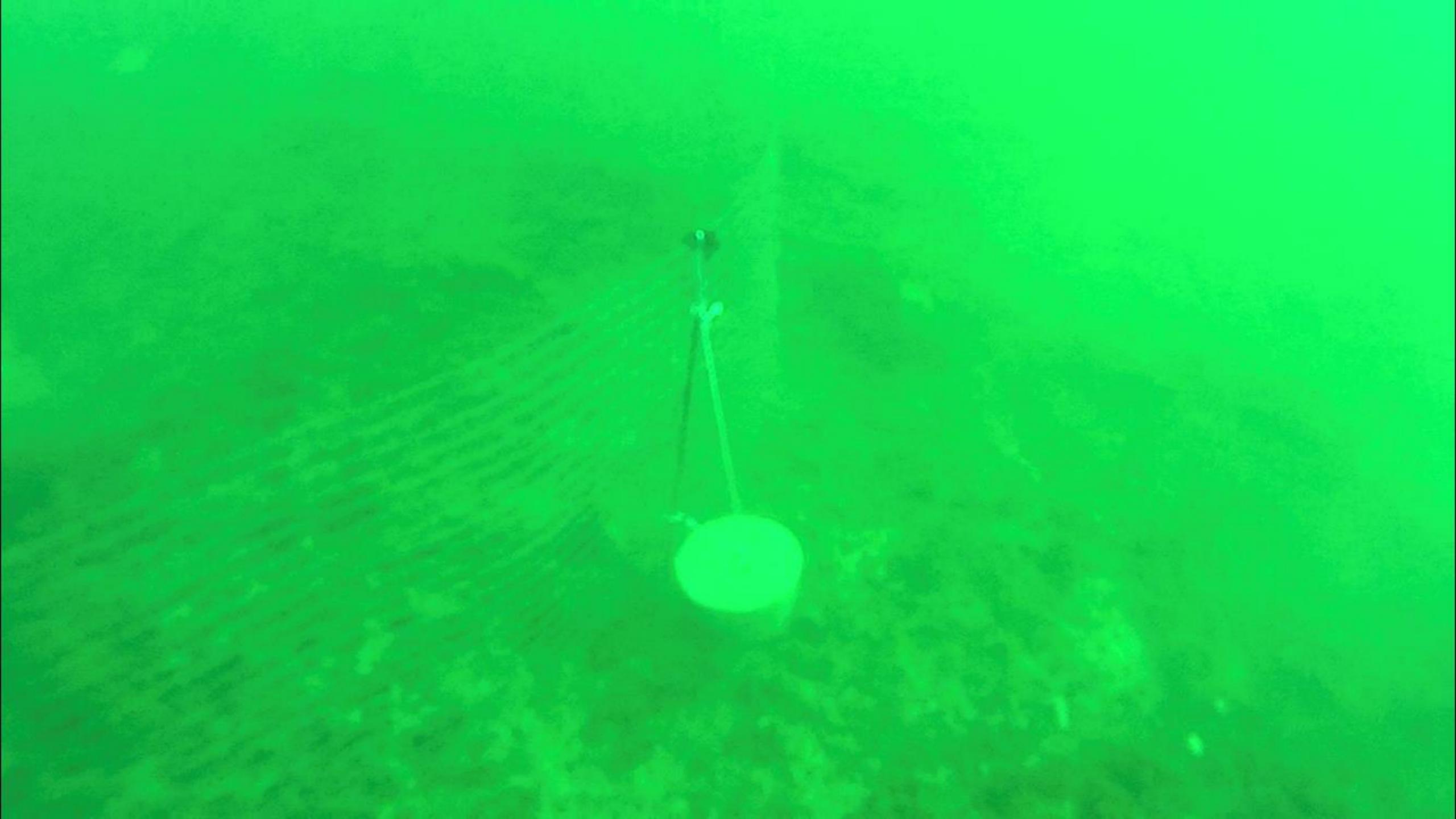
### Mooring design seaweed cages





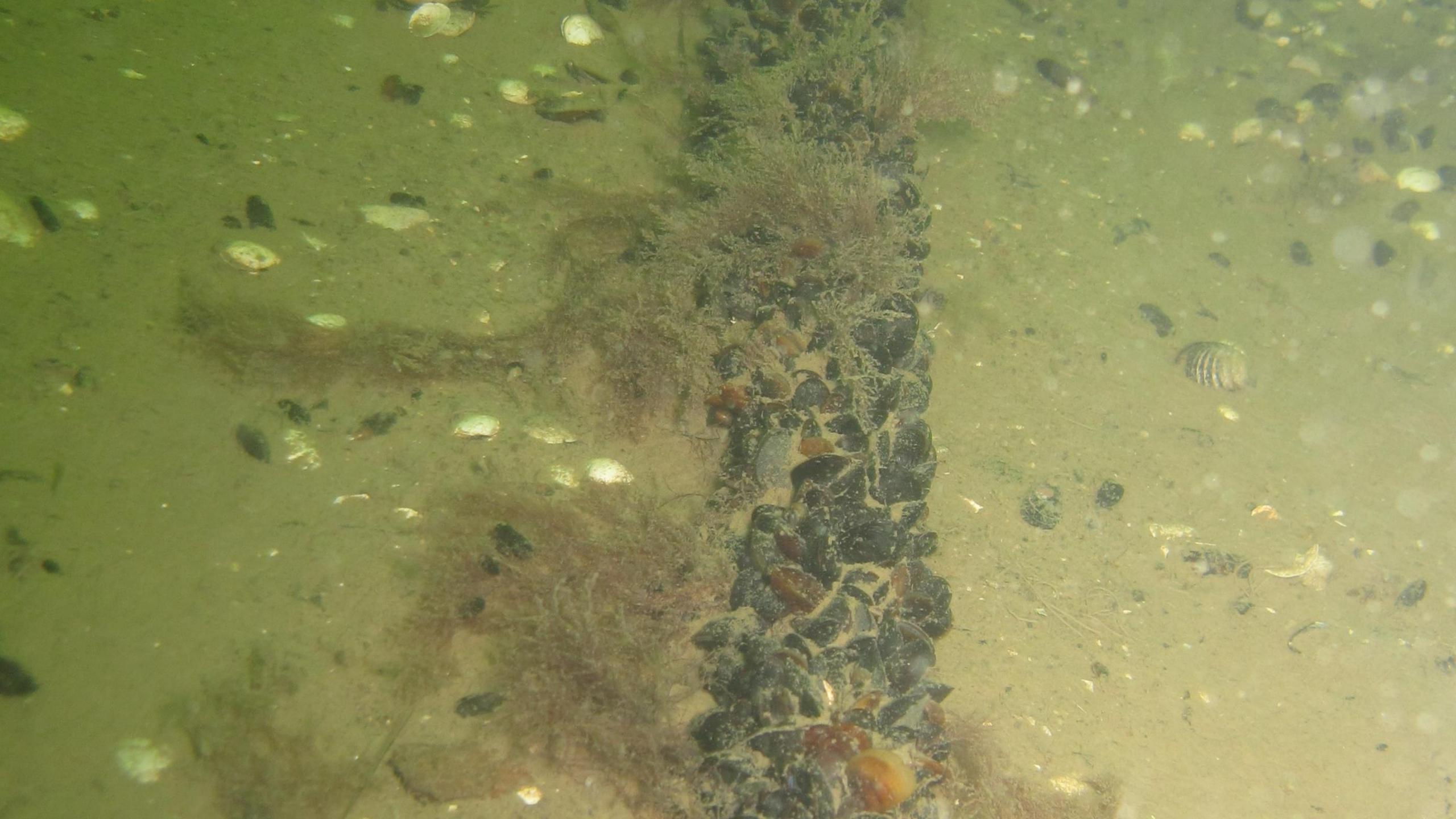


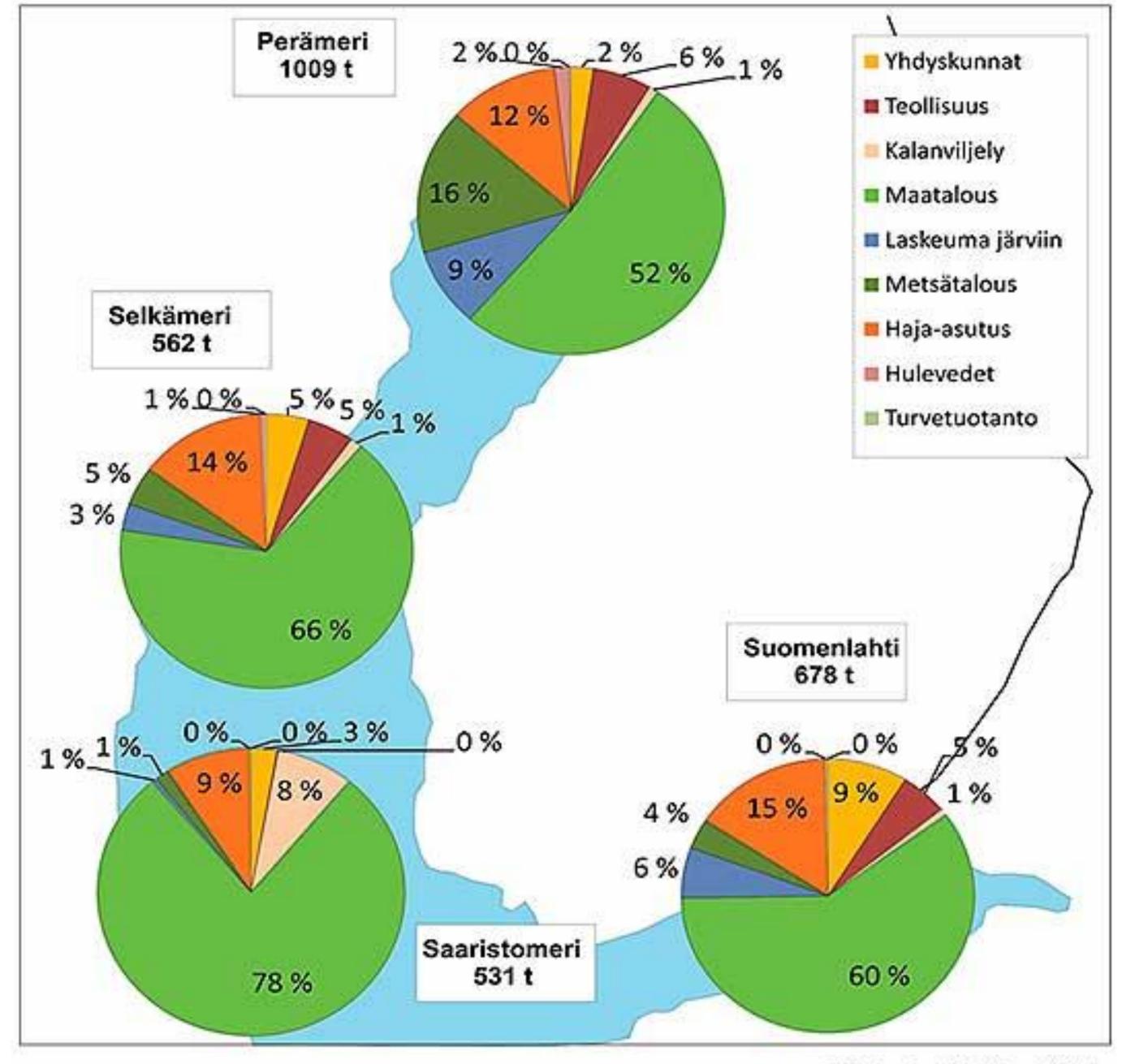










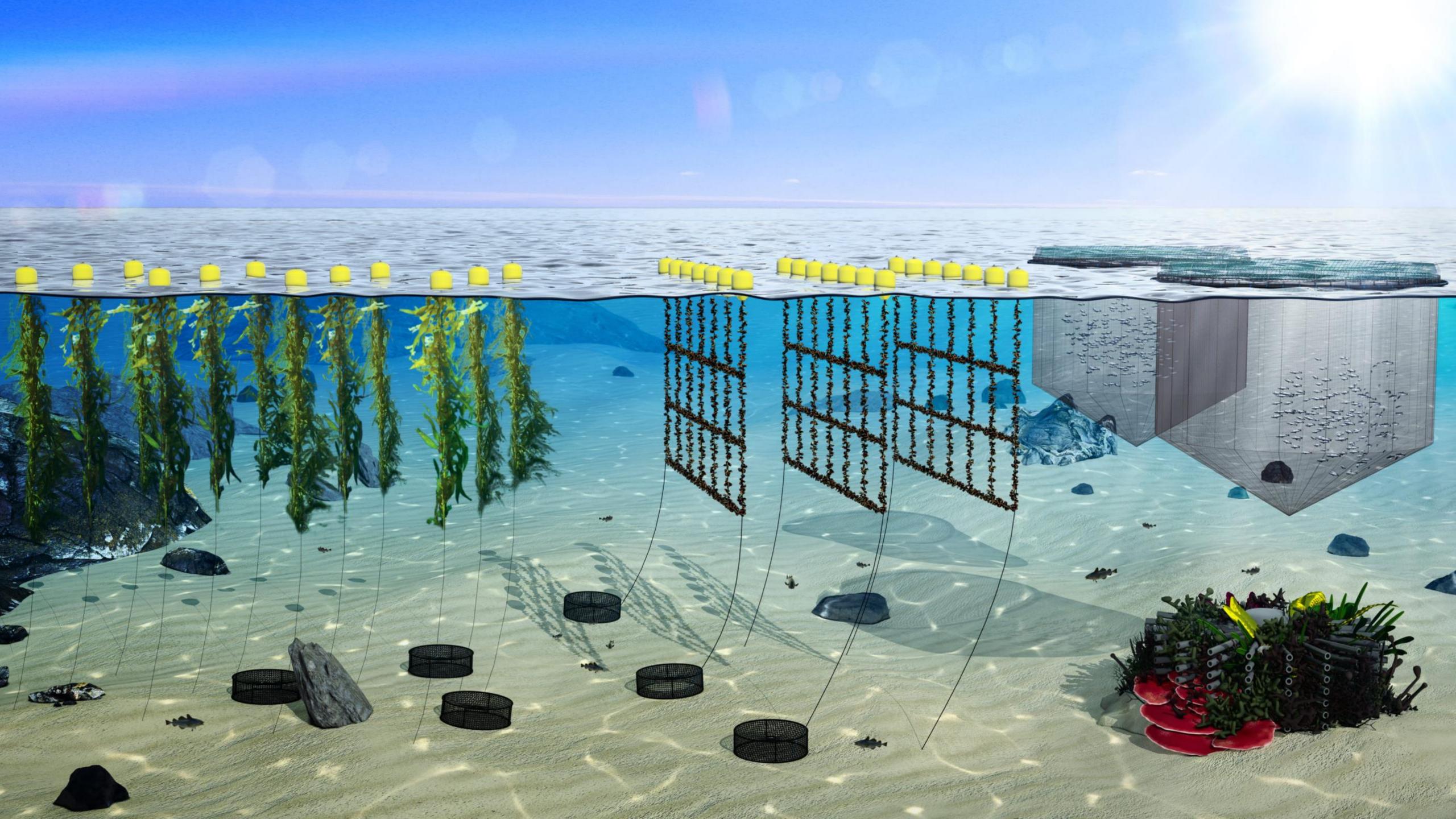


Lähde: Antti Räike SYKE

## Nutrient pollution

- Fish farmers
- Fishmeal factory
- Local fishermen's
- Farmers

### Cooperation







### Thank You!

**Urmas Pau** 

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