

# State-of play on innovative technologies in aquaculture (facts, trends, policy development)

## Estonia

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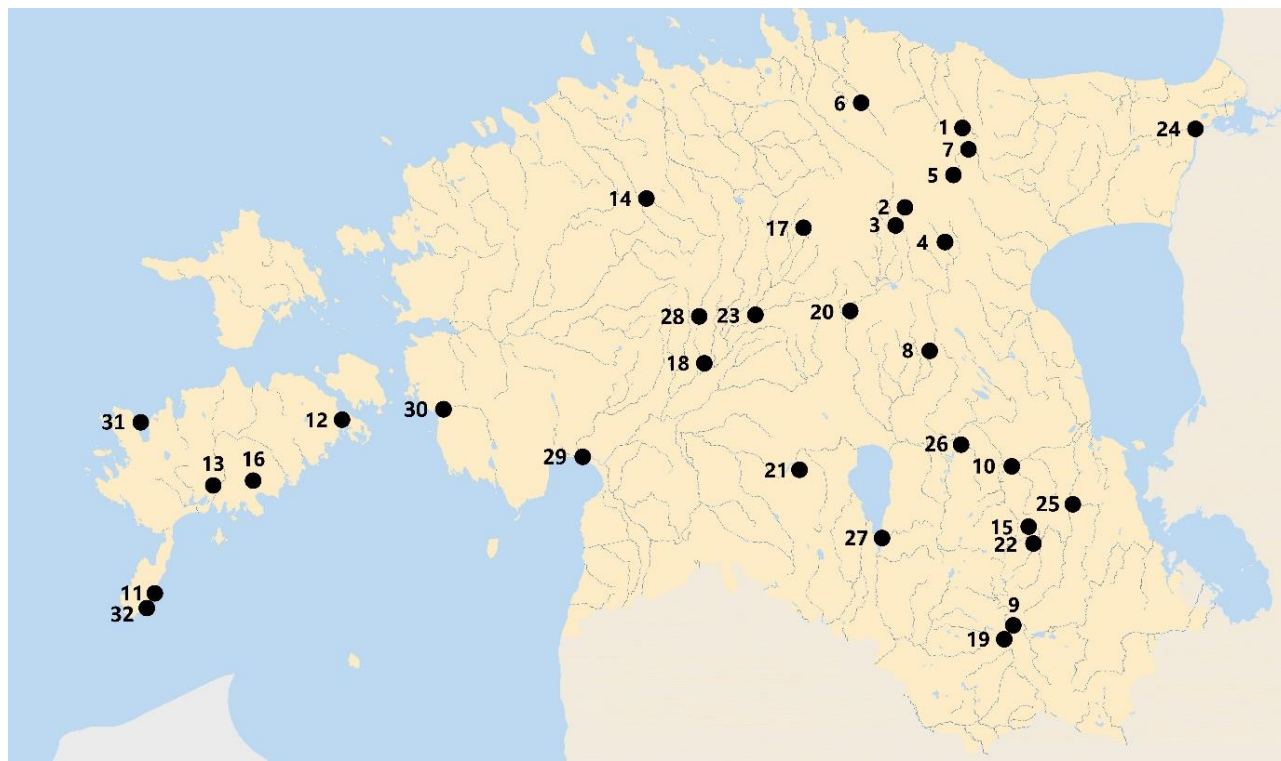
University of Tartu Estonian Marine Institute

17.11.2020

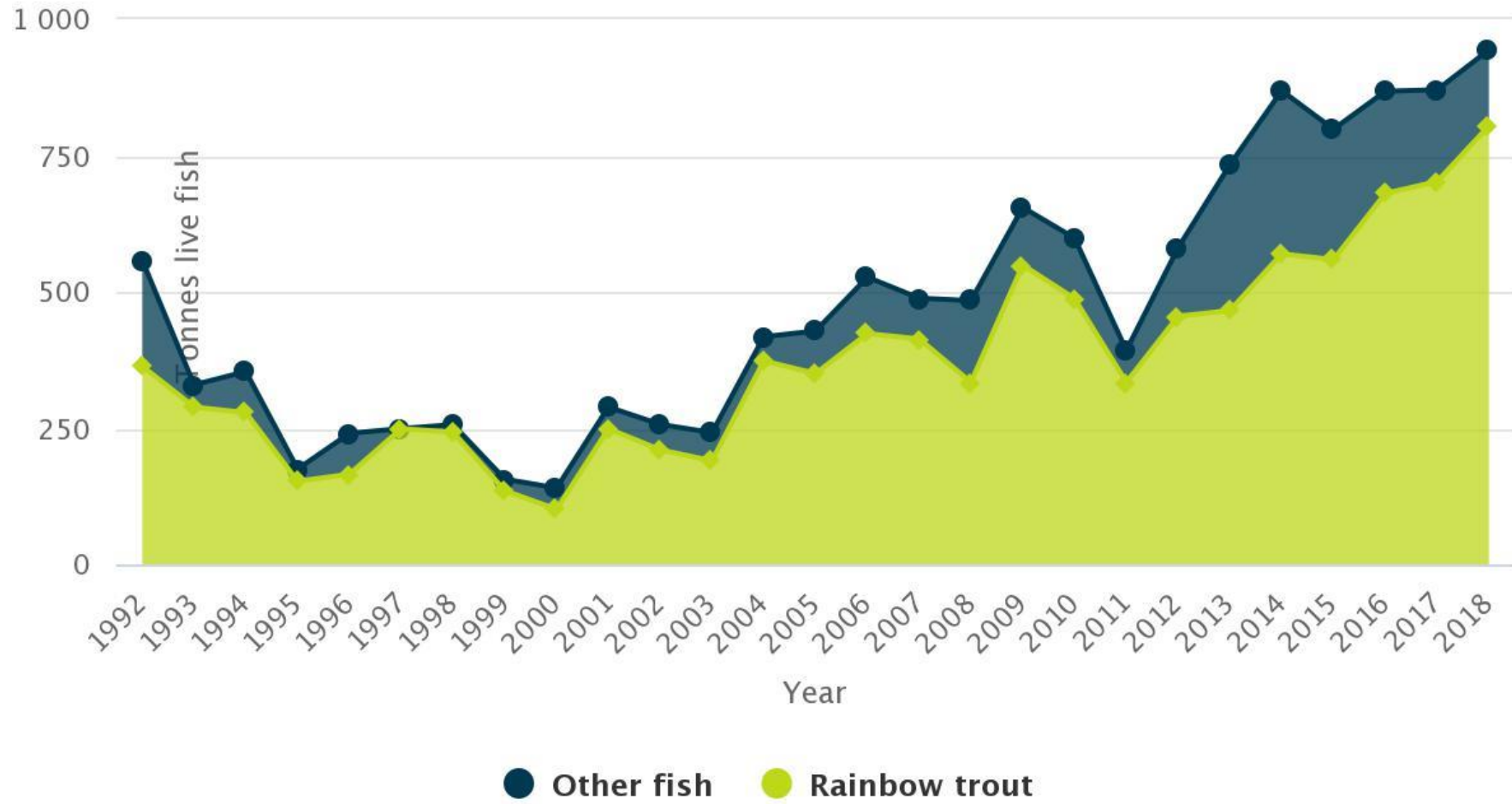


Photo: Redstorm via <https://maaleht.delfi.ee/majandus/saaremaal-kasvavad-meres-kalasumpades-nii-forell-kui-karbid?id=90222507>

# Vetik



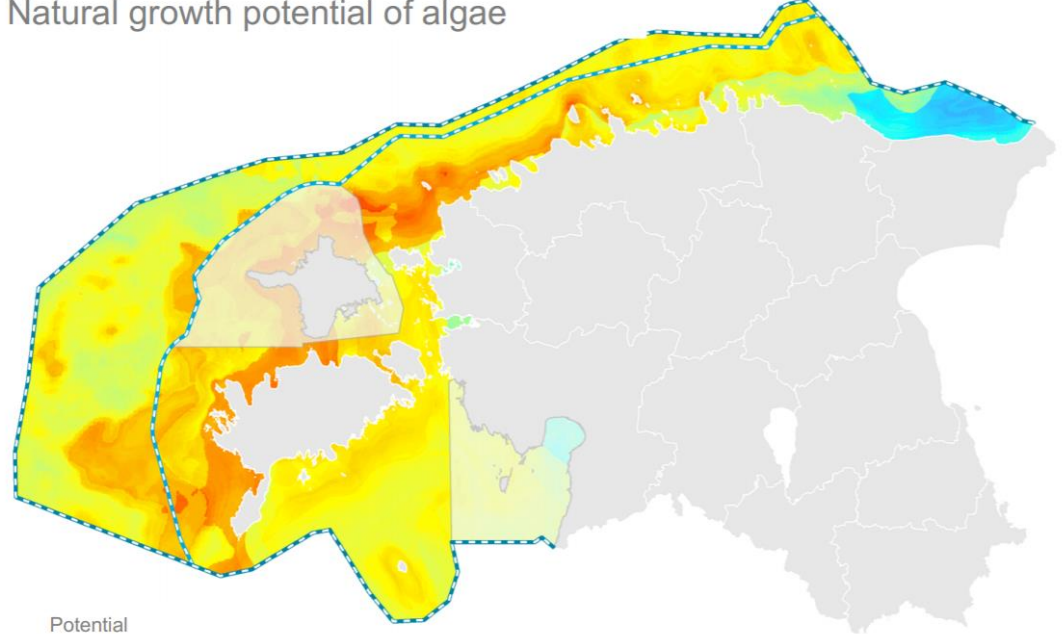
# Aquaculture production sold, 1992-2018



Source: Statistics Estonia



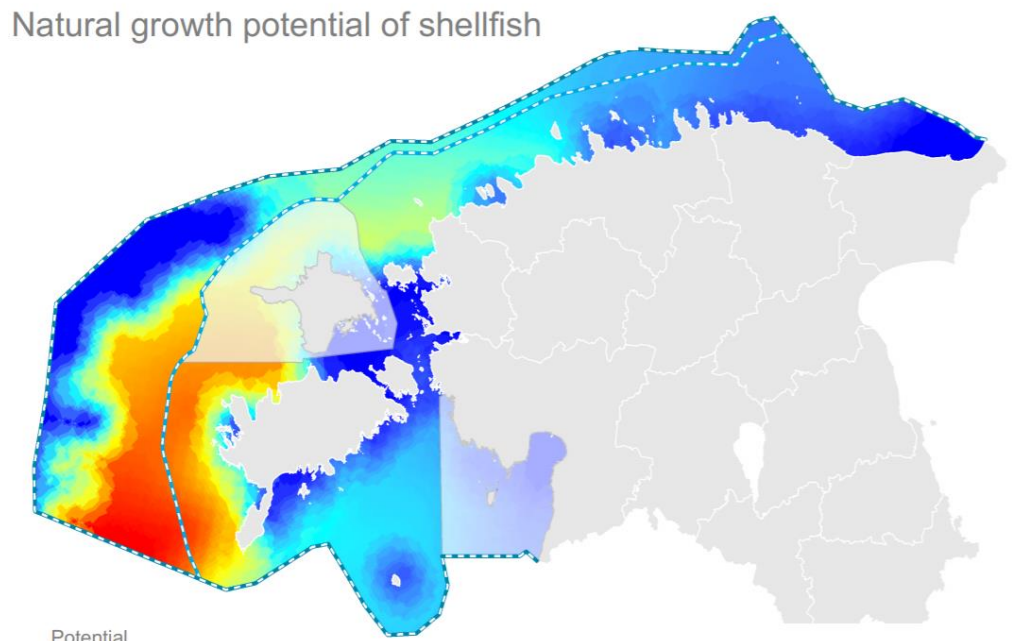
### Natural growth potential of algae



Potential  
 Maximum  
 Minimum



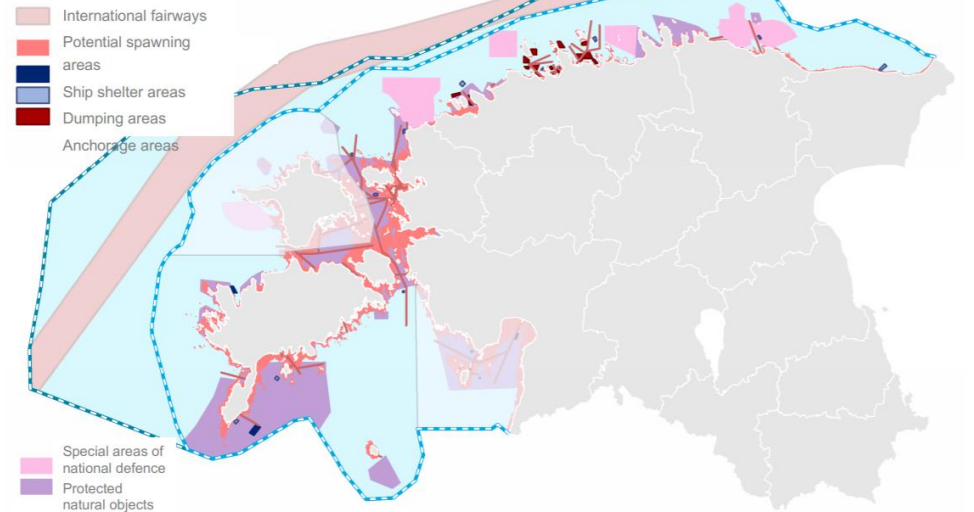
### Natural growth potential of shellfish



Potential  
 Maximum  
 Minimum



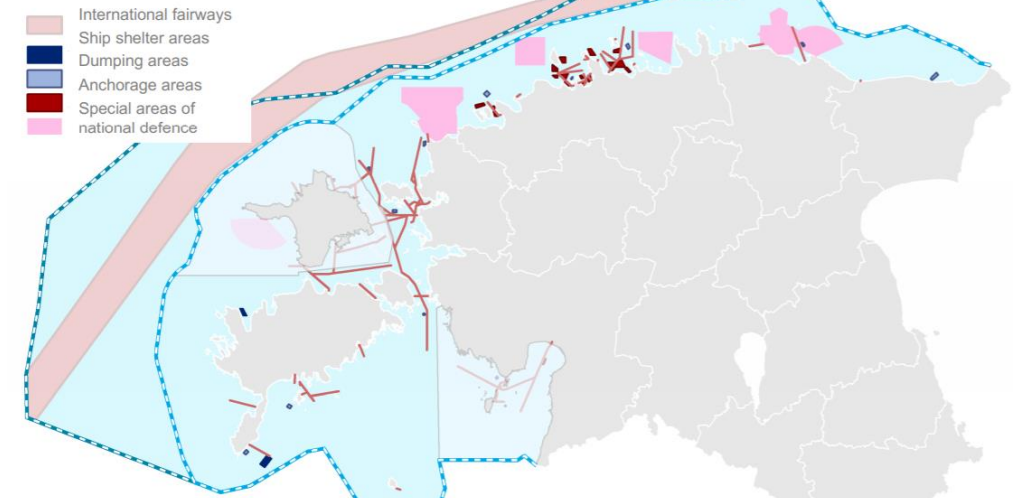
### Exclusion zones for fish farming



- International fairways
- Potential spawning areas
- Ship shelter areas
- Dumping areas
- Anchorage areas
- Special areas of national defence
- Protected natural objects



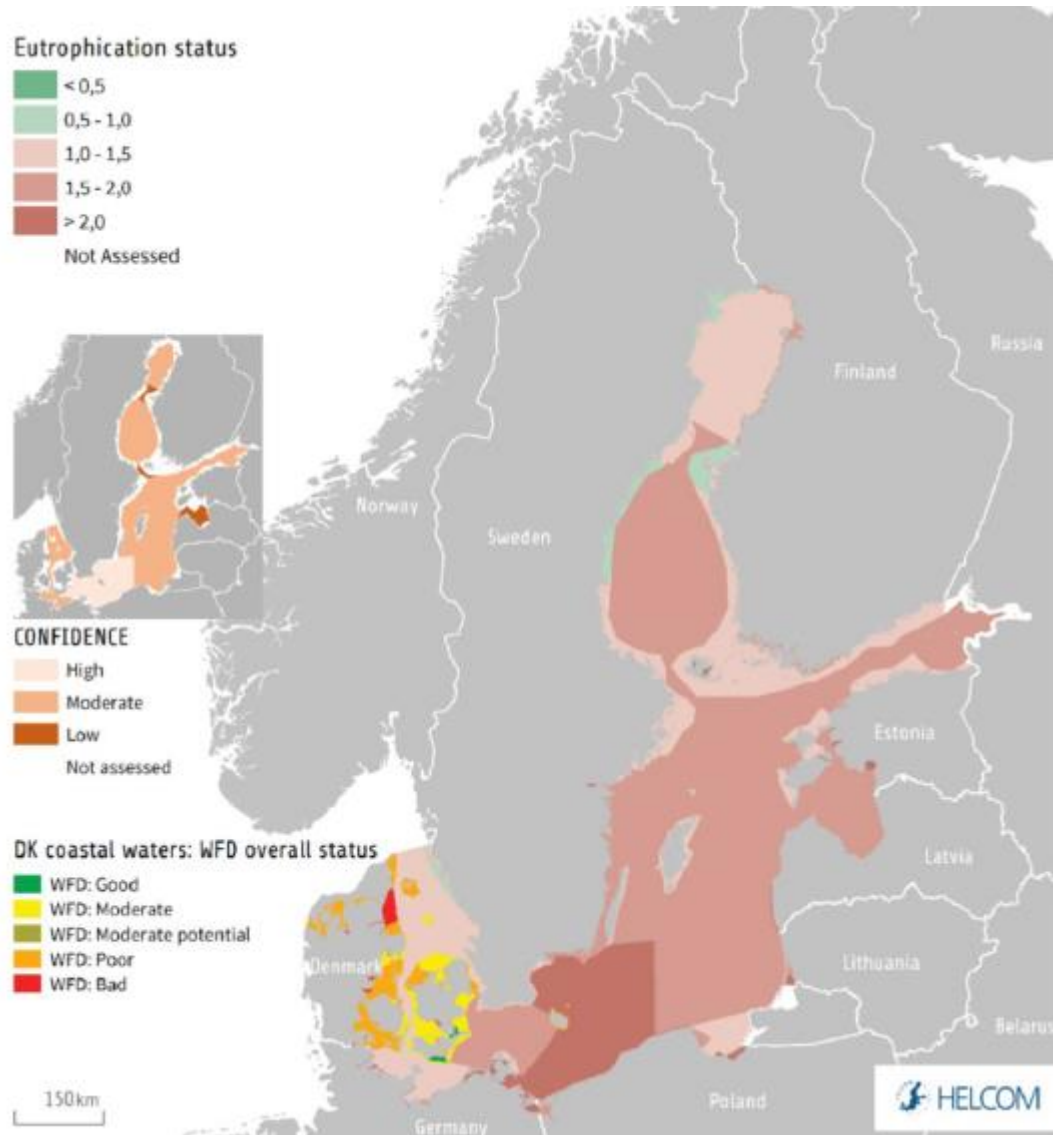
### Exclusion zones for shellfish and algae production



- International fairways
- Ship shelter areas
- Dumping areas
- Anchorage areas
- Special areas of national defence
- Protected natural objects

## INTERREG BSR

- **Baltic Blue Growth** Initiation of full-scale mussel farming in the Baltic Sea
- **GRASS** - Growing Algae Sustainably in the Baltic Sea







INNOVATION PROJECTS IN ESTONIAN MARINE INSTITUTE

- 4**
- Development of cultivation technology for *Ceramium tenuicorne* to obtain biomass suitable for extraction of red pigment phycoerythrin of analytical grade purity
  - Development of cultivation technology of edible green algae *Ulva intestinalis* suitable for the Baltic Sea environment
  - Land-based cultivation technology of green algae *Ulva intestinalis* in the fresh- and brackish waters
  - Development, testing and evaluation of intensive cultivation technology for production of unattached form of *Furcellaria lumbricalis*



**1** *Fucus vesiculosus*, **2** *Furcellaria lumbricalis*, **3** *Cladophora glomerata*, **4** *Ulva intestinalis*, **5** *Chara tomentosa*, **6** *Pylaiella littoralis*