

# Planned **I**ntegrated **M**ulti-**T**rophic **A**quaculture Rostock

**Justus Pockrandt** on behalf of

**FIUM** on behalf of

**Federal State Institute of Agriculture and Fishery Mecklenburg Vorpommern**

# Combined Marine Aquacultur

Third-party project founded by funds of EU (EMFF) and the state Mecklenburg Vorpommern (MV)

Testing of mussel production methods in combination with fish husbandry to support local aquaculture in Mecklenburg Vorpommern (MV)

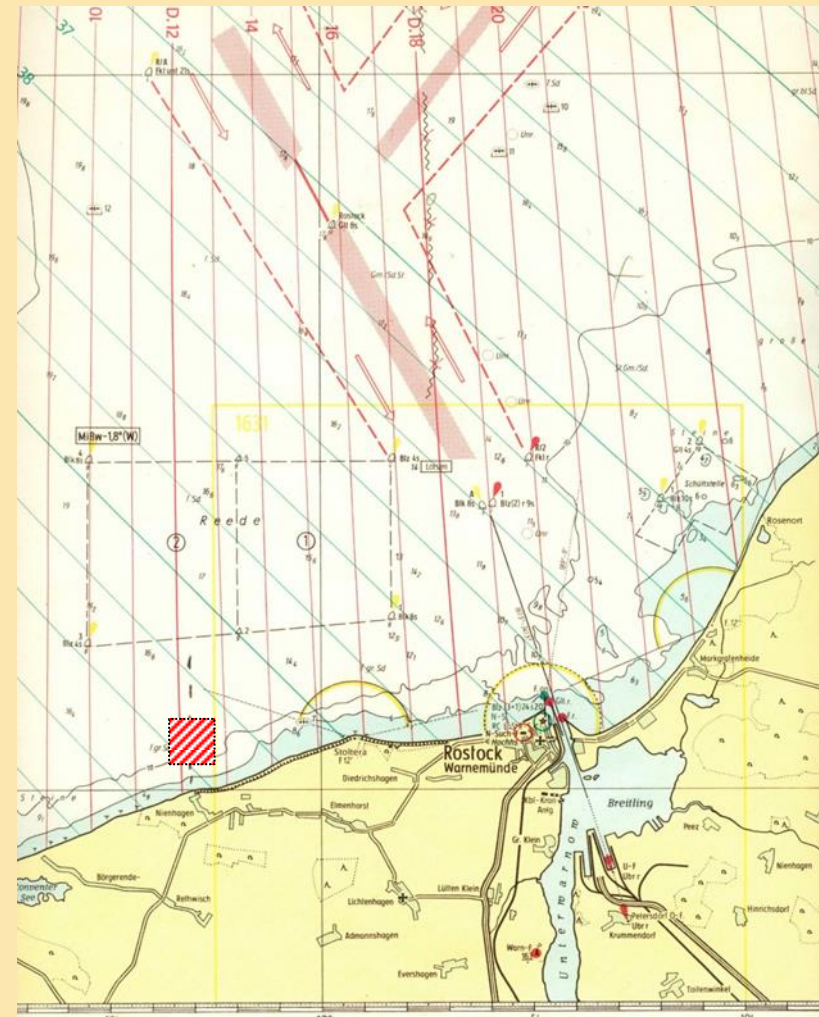
Project term: 01.11.2018 until 31.10.2022

Goal:

- Creation of conditions for an increasing self-supply of local produced aquaculture products.
- Testing of different production methods, whereas mussel production is used as compensation for nutrient input by the fish production
- Exploration of suitable locations and various logistical solutions for decentralized aquaculture projects in local costal waters

The trials are conducted yearly from April until November within the fishery protection zone in Nienhagen.

The project is divided into two parts:

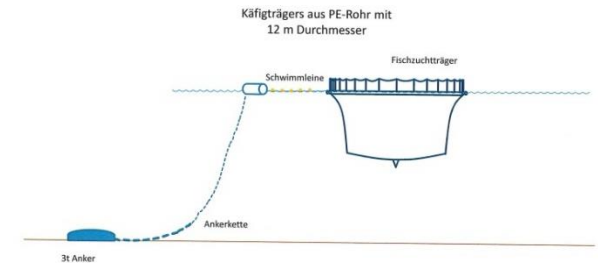


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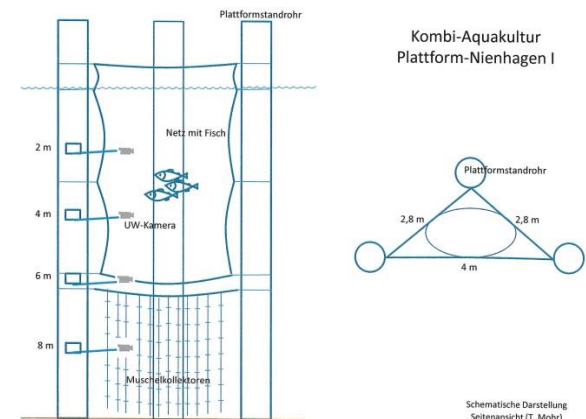
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## Fish:

- Exploration of the sea based fish production of the Baltic whitefish (*Coregonus maraena*) and perch like species.
- Testing of a fish cage with 12 m diameter as a competitive aquaculture production unit for small scale fisherman
- Combined production of mussels and fish between the footings of the working platform in the fishery protection zone Nienhagen



Schematische Darstellung  
Seitenansicht (T. Mohr)



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## **Mussel (*Mytilus edulis*):**

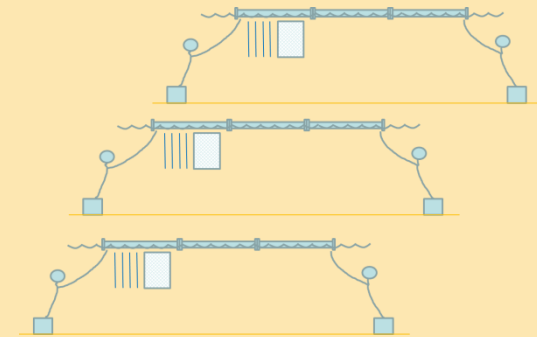
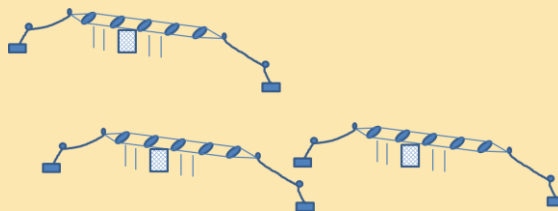
- Testing of various production methods on longlines
  - Variation of floats
  - Variation of rope material
- Assessment of growth rates and monitoring of environmental parameters and contaminants
- Identification of possible uses of a one year old mussel

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## Current status of the preparations:

- The contract for the examinations of the section mussel has not been assigned yet.
  - Variation of floats: single standing and pipe-like floats
  - Length of the pipes or maximal distance between the floats will be 18 m
  - The strived production volume of mussels at the beginning is scheduled with 1-2 t



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- The contract for the examinations of the section fish is awarded to the cooperation partner FIUM GmbH & Co. KG.
- The floating fish cage and the cage within the footings are going to be stocked first with trout (*Oncorhynchus mykiss*) and Baltic whitefish (*Coregonus maraena*) recruited from livestock of the Federal State Institute.
- The strived production volume of fish at the beginning per cage is scheduled with 1-2 t.

## Competences of FIUM:

- Exploration of the population biology of fish stocks
- Hatching and rearing of local fish species for restocking
- Fish-based evaluation and renaturation of watercourses
- Environmental impact assessment as part of marine construction projects (wind farms, bridges, harbour deepening, power lines, and others)
- Water and sediment analyses
- Aquatic mapping and surveying
- Rating of water bodies
- Exploration of water bodies (botany, zoology, ichthyofauna, plankton and benthos)
- Video-optical water analysis
- Catch related capacities and development of alternative catching techniques
- Project and planning services in the context of EU funding programs
- Dive work

**THANK YOU FOR YOUR ATTENTION**

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