



CRAFT

Research Lab

Foresight for sustainable co-existence

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Nor-Fishing

Trondheim, Norway





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Research Lab

- **Fisheries**
- **Biology**
- **Sustainability**
- **Socio-economics**
- **Anthropology**
- **Law**
- **Computer sciences**
- **Futures studies**
- **Games studies**
- **Critical studies**
- **Creative writing**
- **Knowledge integration**



Photo: Jorge Santos, UiT



Photo: Jorge Santos, UiT

Explore the **futures** of the
human <-> coastal area
system, with a focus on the
role of technology

ESTABLISHED INDUSTRIES



Capture fisheries



Shipping/Ports



Shipbuilding



Offshore oil/gas



Marine construction



Marine and coastal tourism



Marine Transport



Marine business services



Marine R & D



Dredging

EMERGING INDUSTRIES



Marine aquaculture



Offshore wind energy



Ocean renewable energy



Marine seabed mining



Safety & surveillance



Marine biotechnology



High-tech marine services

Blue sector

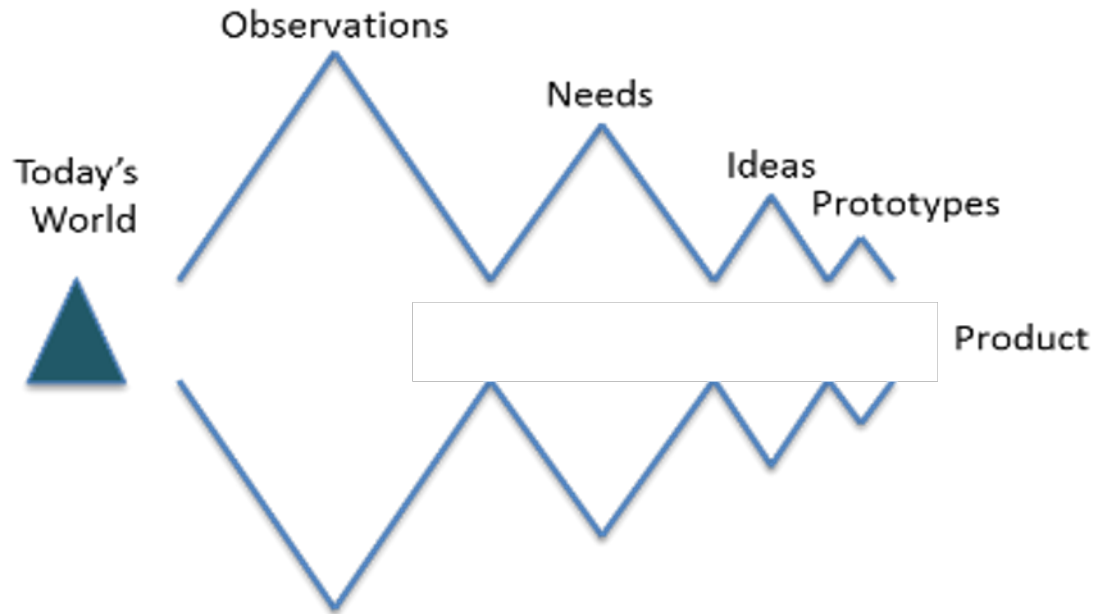
Can these
co-exist in a
sustainable way?

How would such
co-existence
look like?

Considerable
change from the
current situation.

- ***Transformative change*** does not happen spontaneously
- It requires a **deliberate progression** from **visioning** → **planning** → **execution**
 - **engage in *foresight*** = structured and systematic anticipation of potential future developments, in order to explore possibilities, envision scenarios, and consider alternative futures...
 - ...so that one can take informed decision-making and action in uncertain or rapidly changing contexts, and...
 - ...design policies and structured, actionable plans.

DESIGN THINKING

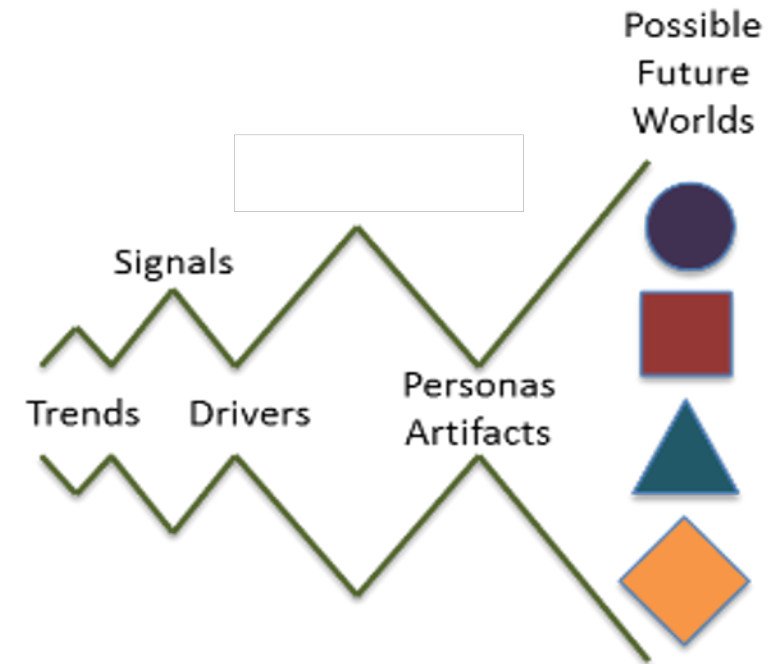


By Santhosh Gandhi, 2021.

Converge

Optimizes for
current users and feasibility.

FUTURES THINKING



Diverge

Expands imagination **beyond today's constraints**, so that one questions systems, values, and long-term consequences.

1st semester Master's students in Fisheries and Aquaculture Science

Objective:

*This call aims to support the development of **futuristic conceptual designs of marine multi-use platforms of the future,***

*as well as **the impact assessment of such platforms** on individuals, societies, economies, and nature. The emphasis is on the future in the long-term perspective (>20 years); thus, speculative designs are encouraged.*

1. Provide ***opportunities for collaboration*** among **all** of the following:
 - a. various maritime industries
 - b. various academic disciplines (**including social sciences and humanities**)
 - c. various stakeholders
2. Use the potential offered by ***emerging digital technologies*** (AI, autonomous systems etc.)
3. Promote ***greener*** maritime and coastal activities
4. Address ***safety and security*** at sea (and on the coast)
5. Provide solutions ***customized for Arctic*** and northern areas

Assessment of projects proposed by students

Evaluation panel

Academics:

- Fisheries management
- Fisheries biology
- Anthropology
- Computer sciences

Marine technology designer

Awards

- Panel award
- Audience award
- Course examiners award

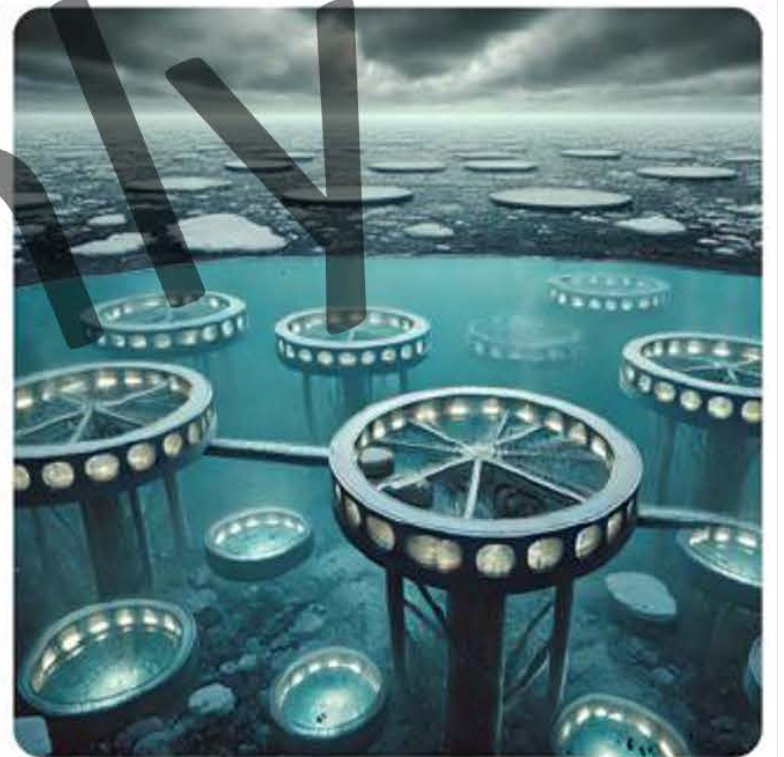




2024

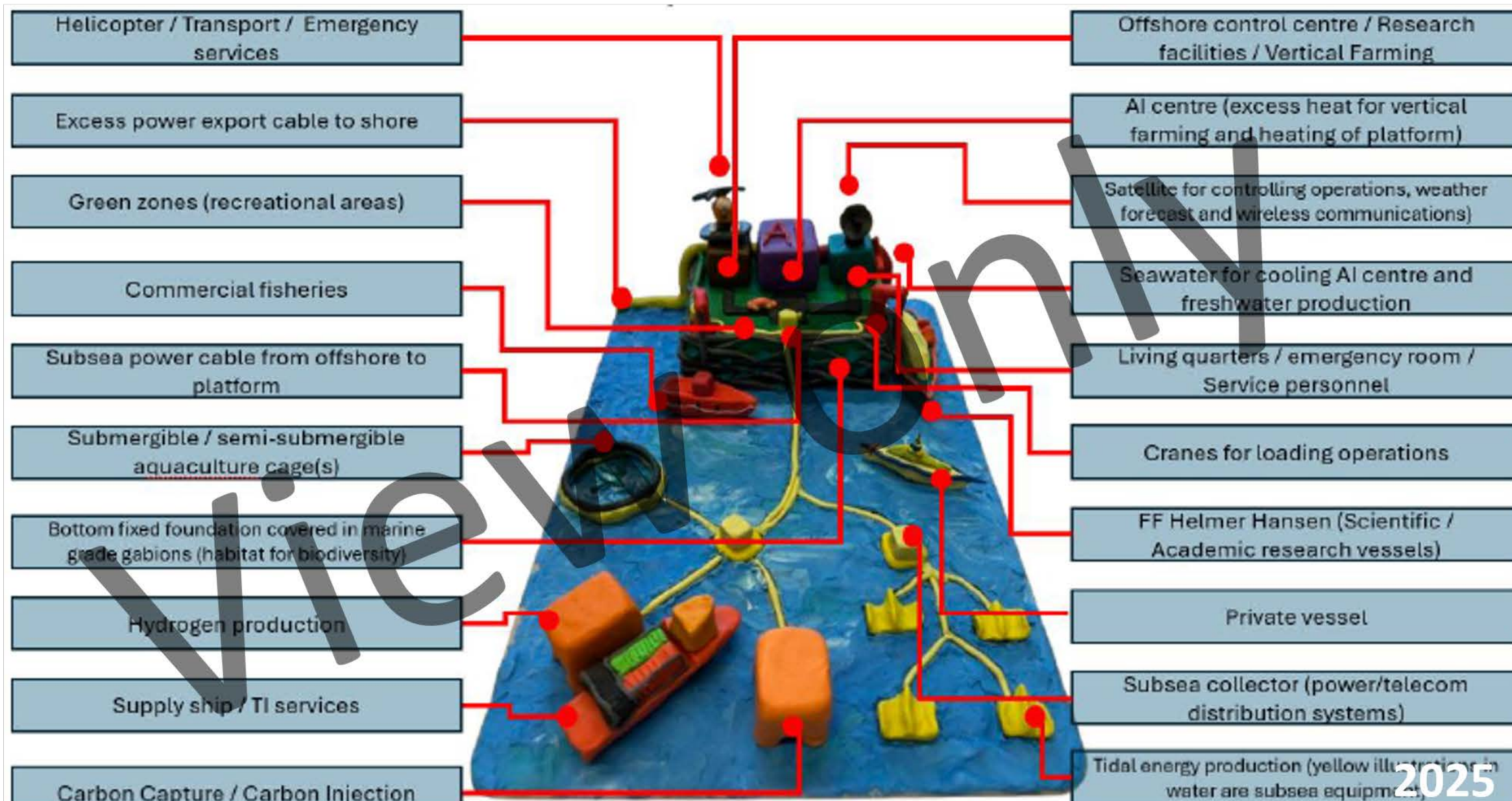


2024





2025



Aquaculture sea cages

Research and living facilities

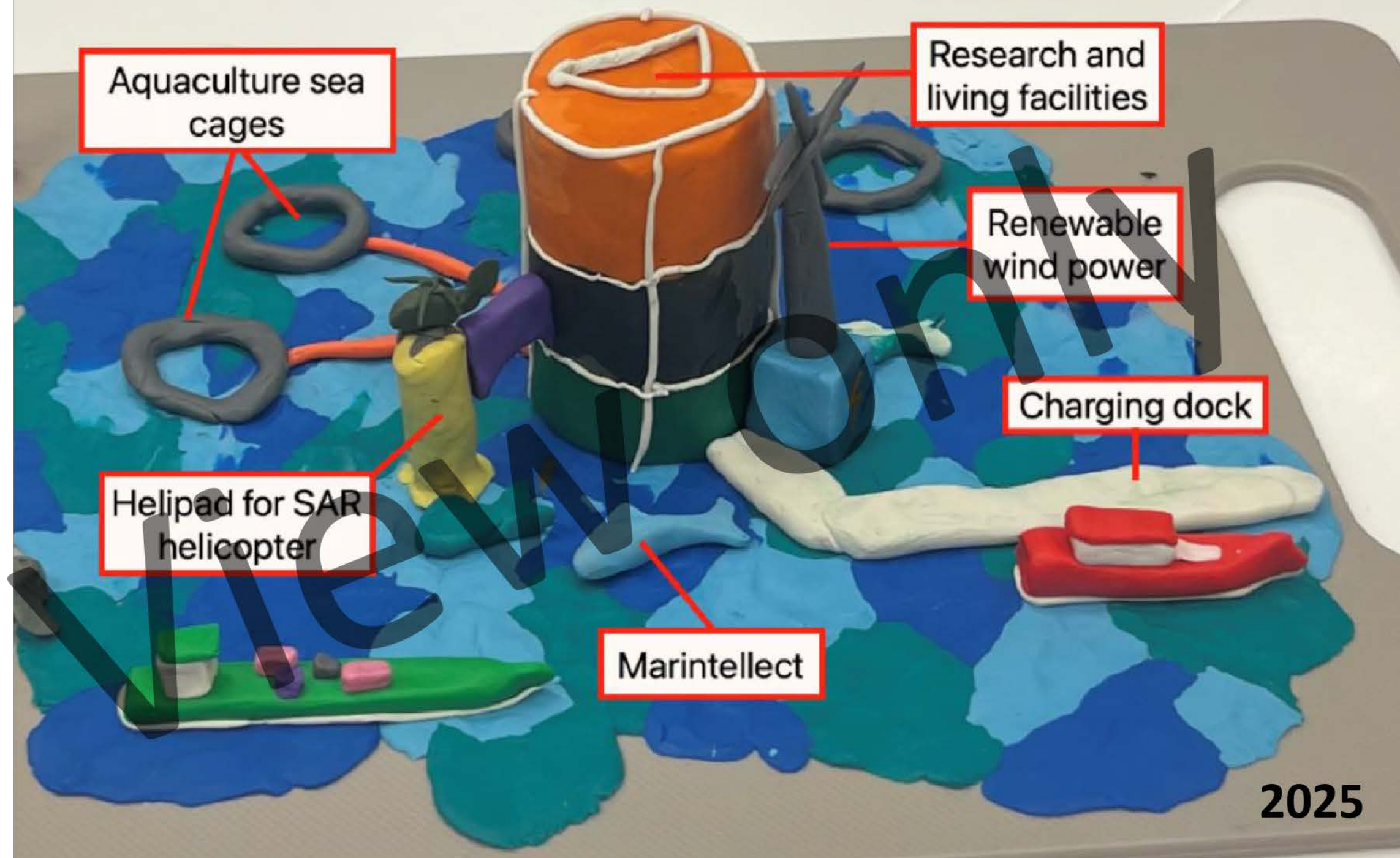
Renewable wind power

Charging dock

Helipad for SAR helicopter

Marintellect

2025





Kai
Kran
Batteripakke

Atomkraftverk



Algeproduksjon



ROV

Biokarbon
produksjon

2025

Principles for good practices for designing technology for better futures

Design must be:

1. Context and value sensitive
2. Open for external input, assessment, and critique
3. Supported by enabling infrastructure
4. Adaptable and flexible
5. Anticipate long-term implications of technology and of design choices
6. Keep multiple alternative futures open

(Osokina, 2026 (forthcoming) – Craft Research Lab)



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Thank you!

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