Possibilities in Norwegian Catapult

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CEO
Rationale:

- Strong global competition, rapid technological development and the green shift challenge today’s solutions and manufacturing methods
- The ability to quickly apply new technology and new methods effectively is crucial for the competitiveness of the industry
- Easy access to test facilities and expertise enhances the ability
Reduced risk and easier market access

1. Idea
   Map demand, purpose and functionality of the idea.

2. Concept
   Pinpoint demand, purpose and functionality—frequently combined with the construction of a simple model.

3. Prototype
   Construct a model illustrating design and functionality under controlled conditions (prototype).

4. Verification
   Full-scale testing of the model's functionality-quality control.

5. Market launch
   Produce the model, distribute and introduce it to the market.
An Ocean of Opportunities

Are we ready?
Ocean Innovation
Norwegian Catapult Centre

Preferred partner for development of new solutions for the ocean industries (energy, marine seafood production, environmental monitoring, deep sea mining etc.)

- Development of prototypes – from idea to finished product

- **Prototyping**
  - Design
  - Virtual Prototyping, simulation, VR/AR
  - CNC machining
  - **Additive manufacturing** in plastics, composites and **metals (Q4 2019)** – Additech AS
Ocean Innovation
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State-of-the-art test facilities and expertise

- Recirculating Aquaculture System (RAS)
  - Water quality
  - Fish biology
  - Feed research
  - Bioreactors
  - Microbiology
  - Sludge and waste treatment
  - Sensor development
  - Education and training

- Aquacloud 2.0 – digital infrastructure for the seafood industry
  - Standards, data quality, data sharing

- Test facilities in fjords – Institute for Marine Research, Runde Miljøsenter
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State-of-the-art test facilities and expertise

- **DNV GL**
  - Materials and corrosion testing
  - Technology Centre for offshore lifting and mooring
  - Technology qualification

- **Testing**
  - Test tank – Stadt Towing Tank
  - Pressure and temperature testing – NUI, DNV GL
  - Fjords and exposed basins
Nasjonal Algepilot Mongstad (NAM)

Unik infrastruktur – bærekraft og CO₂

- Etableringen av Nasjonal Algepilot Mongstad (NAM) er et resultat av **samarbeid mellom forskningsmiljø og næring**.

- Ideen bak algepiloten er å **utenytte fotosyntesen**, **kombinasjonen av næringsstoffer, vann, CO₂ og sollys**, til å **produsere omega-3-rike mikroalger**, som kan bli en ny kilde til omega-3 i fiskefôr.

- **Anlegget på Mongstad** har et samlet volum på rundt 4000 liter, noe som er større enn tidligere laboratorieanlegg på Marineholmen, som var rundt 250 liter.
We support your product development

- SME’s can be granted support of NOK 100,000 in order to use the catapult centres in their product development

- [https://norskkatapult.no/stotte-til-katapult-prosjekt/](https://norskkatapult.no/stotte-til-katapult-prosjekt/)

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