SINTEF

EXPOSED

EXPOSED will develop knowledge and technology for robust, safe and efficient fish farming at exposed locations.

EXPOSED is a Centre for Research based Innovation (SFI) and is funded by the Research Council of Norway's Division for Innovation. The EXPOSED Centre brings together global salmon farmers, key service and technology providers, and leading research groups to develop knowledge and technology for robust, safe and efficient fish farming at exposed locations.

Significant parts of the Norwegian coast are today unavailable for industrial fish farming due to remoteness and exposure to harsh wind, wave and current conditions.

The EXPOSED Centre will take advantage of Norway's strong position in the aquaculture, maritime and offshore sectors to enable safe and sustainable seafood production in exposed coastal and ocean areas.

MAIN OBJECTIVE

To develop knowledge and technologies for EXPOSED aquaculture operations, enabling a sustainable expansion of the fish farming industry.

INDUSTRY OBJECTIVES

- Enable safe and profitable operations at exposed fish farming sites to increase sustainable seafood production.
- Develop new technologies to underpin Norway's global leading position in aquaculture and maritime competence and technology.
- Help develop new technologies related to the concepts found in the development permits.
- Support innovation processes at the industry partners through access to the relevant researchers.

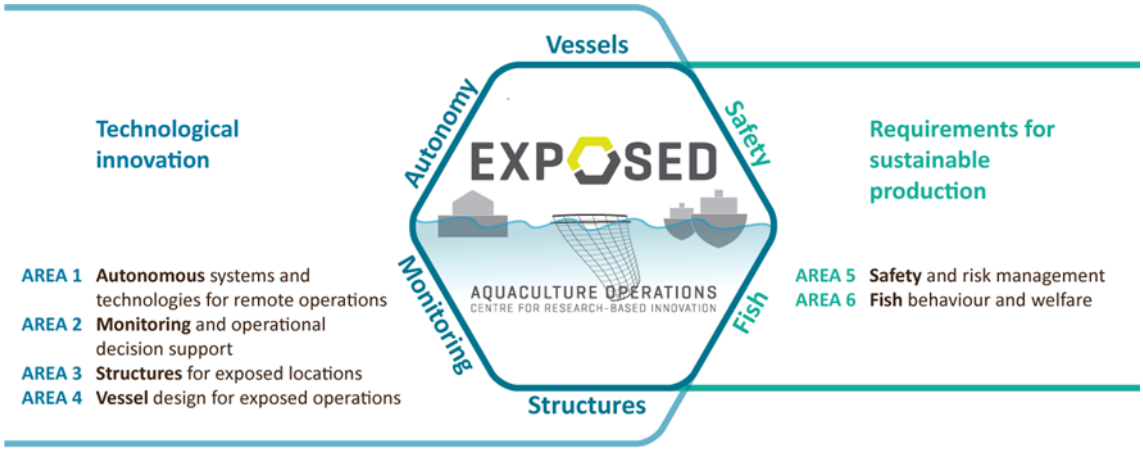
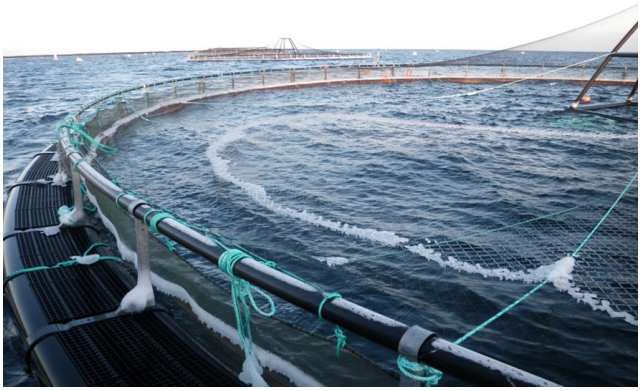


Figure 1: Research strategy and plan: EXPOSED has identified six core research areas to address the challenges described.

Figure 2: Icing on structures can be a challenge.



RESEARCH OBJECTIVES

- Conduct fundamental and applied research into key knowledge gaps related to exposed aquaculture operations by combining research fields from the aquaculture, mari-time and offshore sectors.
- Build knowledge and competence capacity through educating at least 20 PhD candidates, 5 post-docs and 70 MSc candidates.

EXPOSED brings together global leading salmon farmers, key service and technology providers, and leading research groups as SINTEF, the Institute of Marine Research and the Norwegian University of Science and Technology (NTNU), including AMOS (the Norwegian Centre of Excellence for Autonomous Marine Operations and Systems).

PARTNERS

- Mowi (Marine Harvest)
- Cermaq
- SalMar
- Kongsberg Seatex, Kongsberg Maritime Subsea and Kongsberg
- Aqualine
- Møre Maritime
- ÅF
- Anteo
- Argus
- Lerow
- AQS
- Marin Design
- DNV GL
- MacGregor

SINTEF

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