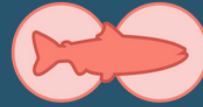




CS3



Faroe Islands

Marine aquaculture.
Salmon.



Industry partner: Hiddenfjord, Avrik



Research partner: Firum, Sjókovin - Blue Resource



Stakeholder: Salmon farming industry

Challenge

Sea lice are the main obstacle to increasing production in marine salmon aquaculture across Europe. Sea lice **treatments** are also one of the largest contributors to **fish mortality** and a major factor in the industry's **carbon footprint**.

As ocean temperatures rise due to climate change, sea lice are expected to **develop faster and produce more eggs**, which could lead to a higher infection pressure.

Existing models used to guide sea lice treatments are helpful for sea lice management at individual farms in near real-time, but they are **unable to integrate future climate change scenarios** and how **sea lice production** and **infection dynamics** will be affected by climate change.

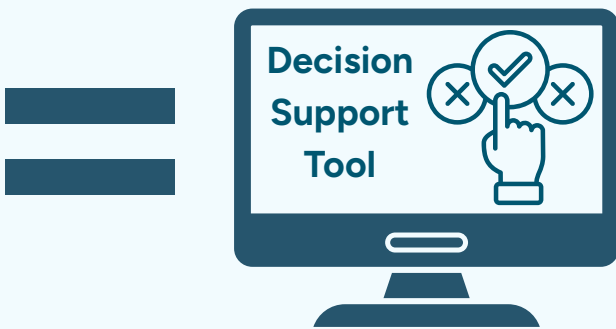
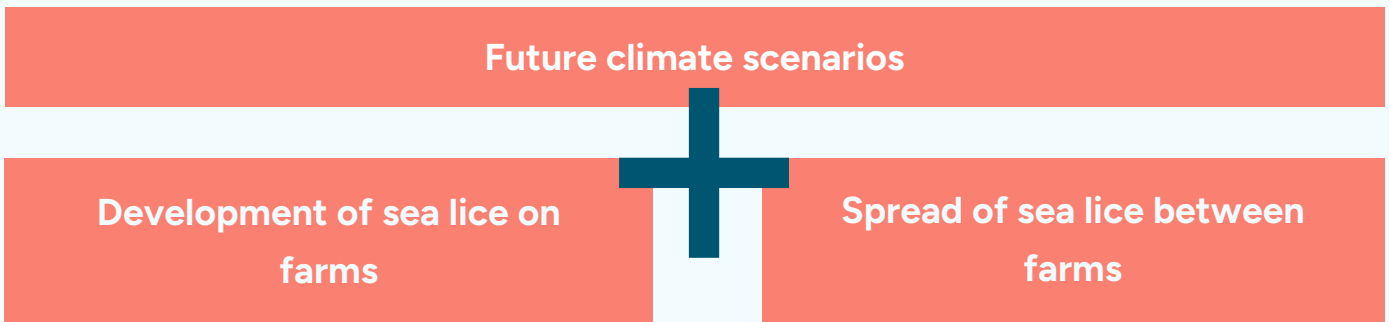


Salmo Salar,
or Atlantic salmon

Proposed solution

S3: Decision support tool for sea lice management

- Development of an **integrated predictive model** to simulate **how sea lice mature and larvae spread** under climate change scenarios



"Where should I place my farm to minimize sea lice?"

"When is the optimal time to delouse?"

"Which method is most efficient?"

"How can I improve sea lice regulations?"



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