

Responsible AI enabled Sustainability

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Decades of action



Applying our best practices to help others achieve meaningful transformation

A more resilient future is possible through collaborative partnerships



Microsoft is committed to leading the way, delivering **trusted**, **integrated**, **data-driven solutions** to address environmental challenges

Data intelligence accelerates sustainability progress



Microsoft Cloud for Sustainability



We're on a common, connected journey



Using data to drive insights, results —and transformation



Water Waste Avoidance

Infant Nutrition Mexico roadmap to zero emissions.



Want to learn more?<u>Read the full story</u>.

Sustainable Fishing

Shifting into high gear with Bing Ads

IoT, Sensors and Edge devices for sustainable salmon fishing.

Empower Fish Farmers through AI

Norway Royal Salmon (NRS) is a leading producer of sustainable salmon, selling about 70,000 tons of salmon every year. This equates to one million salmon meals per day, all year round.

In the harsh and sometimes dangerous environments of the most northern parts of Norway, NRS sought to **increase the safety** of its employees, **reduce operational costs** and **prioritize sustainability** of Nordic aquaculture.

The challenge

How can we measure, weight the fish more accurately? How can we check for sea lice more safely, without visiting the farm in stormy weather?

The results

To date, Norway Royal Salmon already shows **double digit savings** due to less on site visits, **improved safety**, better food distribution **and better planning** for harvesting.

The solutions



Biomass Underwater cameras capture images of the salmon in their submerged fish pens, floating kilometers offshore at sea. A layer of Al on top of the video footage makes it possible to measure and count salmon automatically.

Our <u>intelligent edge</u> analyses fishes through video stream 24/7 that allow us to continuously improve the accuracy of the biomass.



The used convolutional deep learning framework allow us as well to analyse fish lice, wounds or other behaviours of the fishes.

"To continuously improve sustainability and increase the safety of our individuals, we worked with ABB and Microsoft to co-create innovative ways that empower us to achieve more on every level." - Arve Olav Lervag, COO Farming, NRS.

Microsoft #Sustainability #AlforEarth



Thank you!

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