

NCE Seafood Innovation

Parasite management using data

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INDUSTRY NEED

Sea lice are a major issue for the Norwegian salmon industry, indeed the salmonid industry globally.

The impact is on growth, environment and animal health and welfare

Treatments cost US 1 Billion annually



This project has received funding from the European Union's Horizon 2020 Programme under grant agreement No 862658.



SOLUTION

Since 2015 Norwegian fishfarmers have been cooperating on control and eradication efforts using data as a management tool

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AquaCloud

By NCE Seafood Innovation



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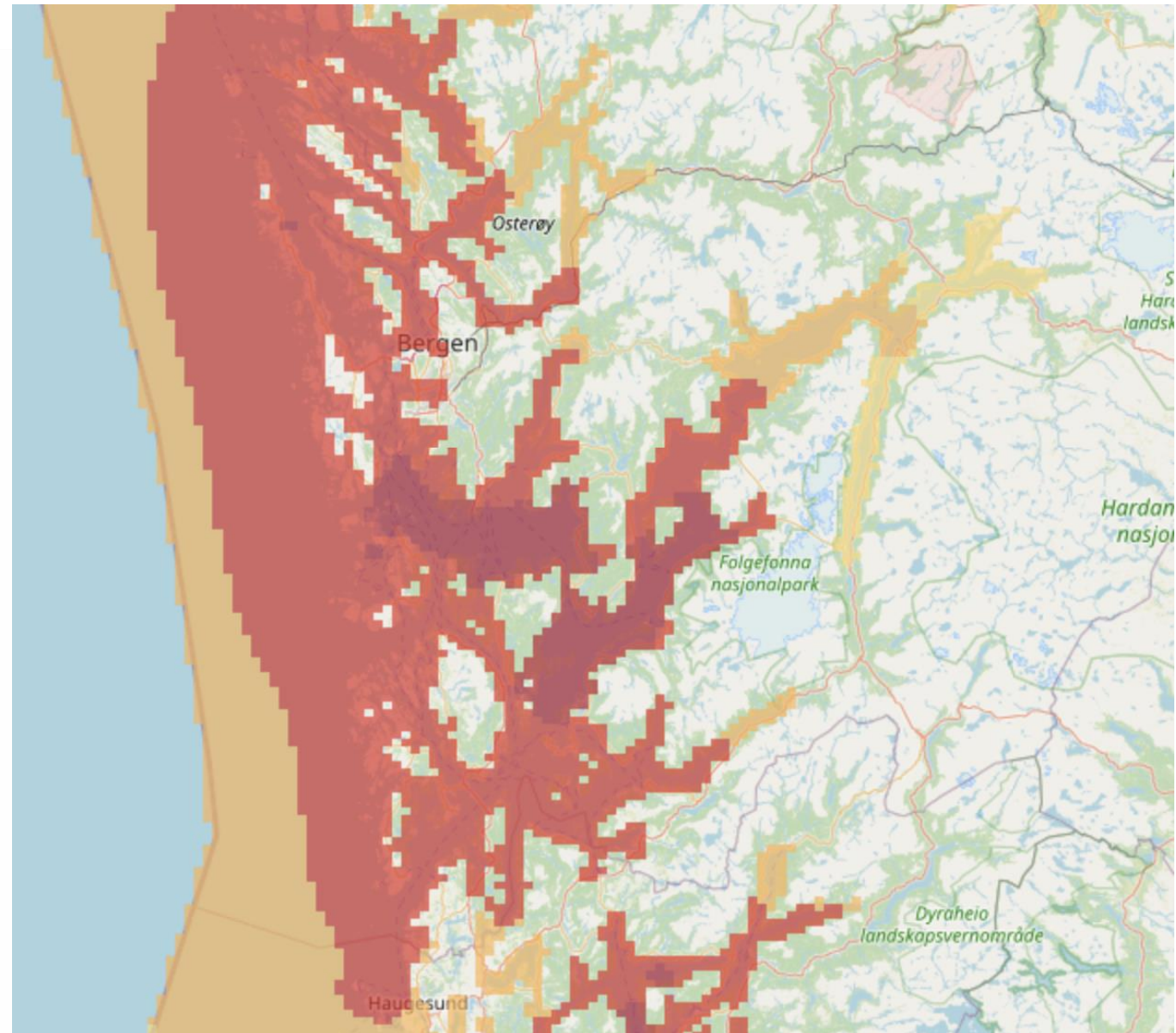
UNDERLYING MAGIC

Each and every farmer gathers environmental data on multiple depths in every cage, as well as on a reference station outside of the cages.

Also, sealice data are reported weekly.

Together this information could impact on management decisions and improving models to understand spread of pelagic lice larvae

From the lice spread model of the Norwegian Veterinary Institute



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TARGET MARKET

The target market for a service like sealice models is the entire salmonid producing market.

However, models with good local input on currents and temperature/salinity can become an important model to analyse the spread of other parasites, bacteria or viruses that spread in pelagic water masses.



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RESULTS and IMPACT

RESULTS - A complex picture.

Lack of standards have impacted on data quality and consistency

Sealice counting methods are not good
– New methods coming online that are a gamechanger

Cyber attack has delayed our rolling out data for sharing

Impact – a lot is happening

Industry cooperating on standards

New innovation coming online

New technology is being developed to utilize new access to data

Government interest and funding towards industry wide cooperation

Experience and expertise percolating outwards from Norway through NewTechAqua



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CURRENT STATUS

Data is coming online to impact modelling and decision management

Multiple standardisation efforts in action

Next level – more data sharing, more development



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THANK YOU!

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