

IMPROVING AQUACULTURE PRODUCTION WITH BIOACTIVES FROM OLIVE OIL PROCESSING BYPRODUCTS



EU EATIP Day: Low impact – High output

Promoting food security and new value chains in aquaculture



ABOUT NATAC





NATAC - SCIENCE TO MARKET

Natac develops and produces **innovative and value-added healthy ingredients** of natural origin, mainly herbal extracts, for the following industries:







Pharmaceutical



Food



Animal Nutrition



Cosmetics



KEY FIGURES

- First Olive Biorefinery Worldwide
- 65 people, 12 researchers, 7 PhD's
- 8 international patents
- 80% international sales
- +1.500 tonnes production capacity
- 8 M€ Turnover in 2018



BUSINESS MODEL





A sustainable business model based on the bioeconomy and on strategic alliances with the most important agroindustrial producers.



Innovative business model: multi-stage olive biorefinery

- ✓ Free access to almost unlimited raw material
- ✓ Extremely competitive costs due to our biorefinery model
- ✓ New value chains
- ✓ Boosting environmentally friendly solutions



PROBLEM & SOLUTION





THE PROBLEM

- 1. Fish demand increases
- 2. Aquaculture is intensified
- **3.** Insufficient fish feeding sources
- **4.** Plant derived diets (inflammation and oxidation)



Farmers lose productivity and profitability

THE SOLUTION

AQUOLIVE

Is an additive that increases fish resilience and quality in a cost-effective way





AQUOLIVE will help fish farmers to increase their productivity and profitability while reducing environmental impact and medication.

VALUE PROPOSITION



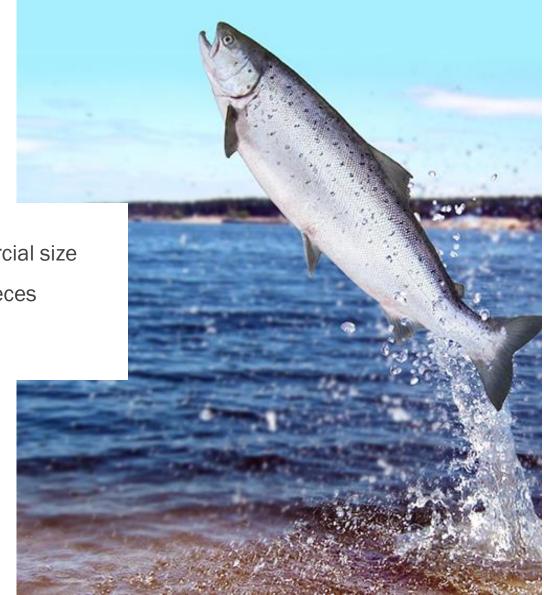


15%

Increase in farming profitability

- √ 9% Production increase
- ✓ Meat quality increased
- ✓ Medication usage reduction
- 9% less feed to reach commercial size
- 8% increase in of premium pieces
- Enhanced health status

Contribution to aquaculture sustainability – bioeconomy



PROVEN RESULTS- REAL TRIAL IN CHILE

PROJECT GOALS





VALIDATE OUR PATENTED PRODUCTION PROCESS TO INDUSTRIAL SCALE

- Optimize each step

VALIDATE OUR PRODUCT IN TANK STUDIES AND IN A REAL DEMO SEA CAGE TRIAL IN NORWAY

- -Demo sea cage trial, from 600g to 5Kg, 1600 fish
- -Smoltification & bacterial challenges tank trials



IMPACT





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INCREASE AQUACULTURE SUSTAINABILITY

by reducing dependency on wild fisheries and fish derived products



MARKET FOR NATAC- Potential sales of 336 M€

This means that we might be talking of a 336 M total market potential for AQUOLIVE by 2023.



CONSOLIDATE THE 1st OLIVE BIOREFINERY

Creating a new value chain in a key industry in Europe while reducing environmental impact of olive by-products.



INCREASE SALMON MEAT QUALITY & HEALTH

We will provide the retailers with higher meat quality and healthier food for final consumers



INCREASE SALMON FARMERS PROFITABILITY

We will increase salmon farmers profitability up to 15%, and reduce the use of medication



CONTRIBUTE TO 6 SDGs













This project will link olive farmers from southern Europe with Norwegian salmon producers, by the valorisation of olive biomass and the improvement of salmon quality and productivity, in a circular economy basis.

Transferring scientific knowledge to industrially viable and sustainable projects that create value and improve the lives of people

Thanks!

Any questions?

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