

Non-Food Organic Resources-based feeds optimised for salmon until postsmolt stages (NON-Fôr)

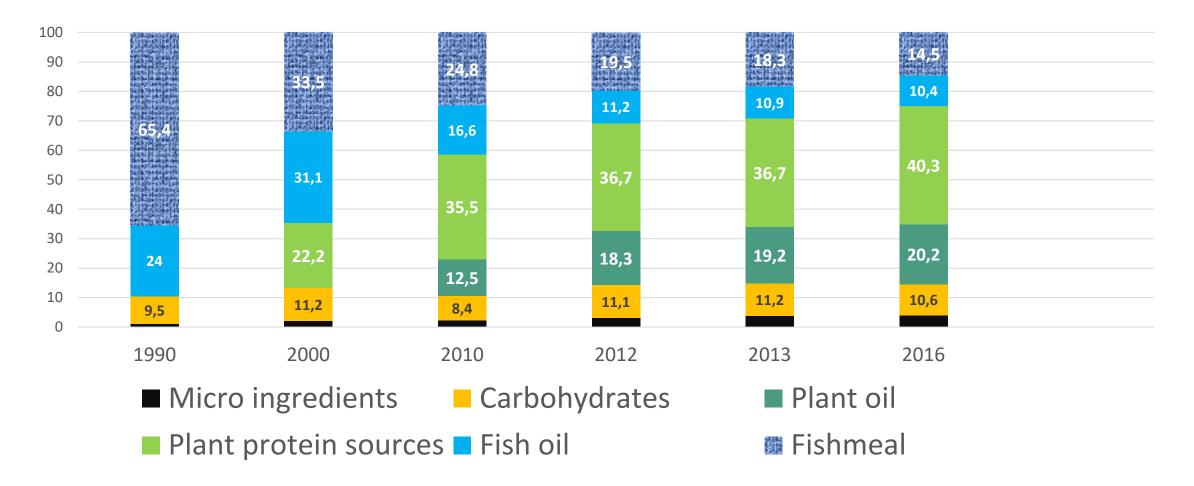
Presented by Mette Sørensen on behalf of The NON-Fôr Team







Sustainable feeds for climate neutral aquaculture

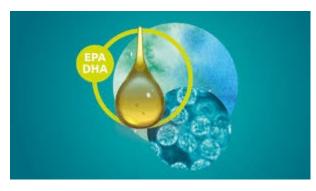




Challanges



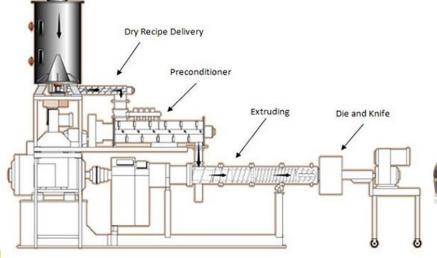




Black Soldier Fly, EcoProt AS

Meal worm, Nord university

Algae oil, Veramaris









Aim of project

To investigate:

- 1. The quality of protein in the ingredients
- 2. The physical quality of pellets produced by incorporating the third generation ingredients and to provide suggestions for quality improvement that can be adopted in the commercial production of these feeds
- 3. The potential of algae oil as replacer of fish oil at start feeding and during smoltification and the potential of insect meals as replacers of fish meal in post smolt feeds
- 4. The environmental impact of the new feeds



NON-FOR

WP5: Administration, Implementation, Dissemination

WP1: Feed ingredient quality

WP4: Sustainability assessment

WP2: Pellet quality modelling

WP3: Feed performance, fish welfare

VERAMARIS (NL), ECOPROT (NO), NORD (NO), FJORDALG (NO)

WP1 AU (DK)

Ingredient quality

- Process-induced changes
- · Protein quality
- Feed optimisation

WP2 DTU (DK)

Feed pellet quality

- Ingredient properties
- · Process and pellet quality
- Modelling for pellet quality

Non-food organic resources for salmon feed

- Insect meal, Black Soldier
 Fly and meal worm
- Microalgae, microbial oil

NON-Fôr

WP3

LETSEA (NO), NORD (NO)

Atlantic salmon (First feeder/smoltification/Post-smolt)

• Fish and feed performance

WP5 NORD (NO)

Project leadership

- Communication
- Dissemination
- Management

WP4 RTU (LV)

Sustainability assessment

- Composite index for ingredients
- Environmental performance of fish feeds

Partners and role

	Norway	Denmark	Latvia
Academic partner	 Nord University Mette Sørensen Kiron Viwanath Florence Perera 	 Aarhus University Trine K Dalsgaard Marianne Danielsen Technical University of Denmark Aberham Hailu Feyissa Hongyuan Cheng 	• Jelena Pubule
Industry partners	 EcoProt AS Ole Torrissen, Asbjørn Torrissen FjordAlg AS Gabriel Ossenkamp LetSea AS Henriette Hansen, Kristian Johnsen NCE Aquaculture Malin Johansen Veramaris Ian Carr 	AgroEngineering • Thomas Munk	



Planned Conference Participation

2022:

- The Conference of Environmental and Climate Technologies CONECT 2022 in Riga
- Aquaculture Europe, Italy 2022
- International symposium on Fish nutrition, Italy 2022

2023:

- The European Federation of Food Science and Technology (EFFOST)
- International Congress on Engineering and Food, 14th ICEFE, 2023, France
- Aquaculture Europe XX 2023



Thank you for your attention



NON-Fôr Team, Project number 104310

https://www.nordforsk.org/projects/non-food-organic-resources-based-feeds-optimised-salmon-until-post-smolt-stages-non

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