

Tailoring your feeds

OptiFeeSH project for optimizing fish feeding and comprehensive performance analysis

Ana Nobre ananobre@sparos.pt

Filipe Soares Luis Conceição Andreia Raposo David Vicente



Carolina Castro Rui Amaral



Angeliki Sagia Eleftheria Bikou



Kostas Seferis



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OptiFeeSH OBJECTIVES

Driven by real fish farmer needs



Optimal feeding and production plans



Monitor production performance



OptiFeeSH concept

Optimization and data augmentation **Optimization**

- Analytical solutions of nutrient-based models and Interpolation techniques
- Create optimal feeding plans

Data augmentation and enhancement

Nutrient-based models

- Interpolation and extrapolation
- Compare real Vs expected

Production prediction





Custom feeding tables

Machine learning

Cluster analysis

- Performance analyzer
- Best stocking time
- Typical growth per site/units
- Feeding rate evaluator (coupled with nutrient-based models)

Data integration

Connection to existent farm data

management system Production database

Sensor data







Optimal feeding planner Performance analyzer

OptiFeeSH OPTIMIZATION module



(Optimal production plans are given as SFR and FCR tables)

We expect to help fish farming companies in improving the efficiency of their productions, namely to: (i) Increase profits, by maximizing growth while saving on feed; (ii) Improve water quality, by reducing feed waste; (iii) Adapt to the market, by optimizing harvesting plans.