

Aquaculture

Consulting Services

Innovasea is a pioneer in open ocean aquaculture, working with fish farms and research institutions across the globe for 25 years to grow a multitude of finfish species in both tropical and temperate waters. Our technology- and engineering-based consulting services set up new sites for long-term success and help existing farms optimize operations to maximize production.

Challenge

Aquaculture is an exciting and growing industry, but success requires having the proper data, information and expertise to make informed decisions. Early mistakes in selecting a site, choosing a species or setting up operations can be costly, time-consuming and difficult to overcome. Whether starting a new farm or expanding an existing operation, it is essential to find the right partner to help you overcome the challenges that are likely to arise.

Why Innovasea?

With a stable of uniquely qualified aquaculture experts, Innovasea develops exhaustive, multi-faceted solutions for our clients. Our site selection team includes ocean engineers and oceanographers who ensure that the planned equipment is compatible with production systems. Our biologists and economists model growth and survival rates using your species and location parameters to produce robust estimates of costs and revenue. And our experience working with governments and regulators streamlines the permitting process as we supply them with technical drawings, environmental impact models and local economic benefit estimates.



Solutions and Services

Remote Site Selection Study

Combines remotely sensed data from satellites, ocean buoys or models to analyze the optimal location for a farm.

In-Situ Site Characterization

On-site research that examines the physical parameters at a site to help develop a lease application and the design of a grid system.

Species Selection

Examines price points, production cost estimates and supply and demand data for key markets to evaluate location-specific production challenges for several key species.

Deposition Model

Incorporates in-situ ocean current data with projected production volumes, farm layout, feed rates and digestibility coefficients to estimate the farm contributions to benthic nutrient loads.

Carrying Capacity Model

Investigates how a farm layout, species and feeding regime will impact local environments considering neighboring sites and oceanographic conditions.

Farm Level Economic Analysis

Projects capital and operational costs to help create a pro forma financial statement, balance sheet, cash flow projections and ROI calculations for each phase of a project.

Biological Plan

A species and location-specific biological plan based on growth rates using local temperatures and species feeding rates to produce a production timeline and harvest schedule.

Full Project Feasibility Study

Provides a top-to-bottom, multi-faceted assessment of a project's biological, operational and economic strength.

Hatchery/RAS System Design

Design and delivery of modular RAS solutions for hatchery or grow-out that are energy efficient and conserve water resources to deliver a controlled environment to rear fish in land-based systems.

Genetic Analysis and Family Line Plan

Examines existing genetic variation within the broodstock population and determines whether more broodstock are needed. If necessary, a family line plan to minimize inbreeding depression is developed.

Farm Growth/Expansion Plan Model

Assesses the ability of markets to bear increased production, opportunities in new markets, potential price fluctuations and oceanographic spatial opportunities.

Harmful Algal Bloom and Extreme Temperature Risk

Examines spatial data sets on historical algal densities of harmful species and temperature extremes to assess the risk of mortality events in the near future.

Lease and Permit Application Support

Assist with permitting process by providing technical drawings and specifications of system components and by analyzing impacts from conflicting ocean users. Leverage professional connections and prior experience to streamline the process.

Third-Party Market Certification and Audit Prep

Work with actual auditors to design your farm and operations to make it easier to pass BAP, ASC or other third-party market certification audits.

With 250 employees worldwide, Innovasea provides full end-to-end solutions for fish farming and aquatic species research – including quality equipment, expert consulting services, and innovative platforms and products that deliver unrivaled data, information and insights.



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