

AQUACULTURE CONSULTING SERVICES

For over 30 years Innovasea has been a pioneer in open ocean and land-based aquaculture, helping fish farms and research institutions across the globe grow a multitude of finfish species in cold, temperate and tropical waters. Our consulting services set up new sites for long-term success and help existing farms optimize operations to maximize production.

The 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 ensure your success.

Why Innovasea?

With decades of hands-on experience in fish farm management, the Innovasea team is uniquely qualified to develop comprehensive, multifaceted solutions for our clients. Our open ocean staff includes ocean engineers, data scientists and farm managers who have helped farms with every step of their planning, permitting and financing activities. Our land-based Recirculating Aquaculture Systems (RAS) design team has both marine and freshwater expertise, having designed and equipped hatcheries and farms from 10 – 10,000 tons of production. Furthermore, we are experienced in working with governments and regulators to streamline the permitting process and supply them with technical drawings, environmental impact models and local economic benefit estimates.



SERVICES

REMOTE SITE SELECTION

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

IN-SITU SITE CHARACTERIZATION

Collect on-site data to examine your farm's unique physical parameters to help develop a lease application and design a grid system.

SPECIES SELECTION

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

DEPOSITION MODEL

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

CARRYING CAPACITY MODEL

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

FARM LEVEL ECONOMIC ANALYSIS

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

BIOLOGICAL & PRODUCTION PLANNING

Generate and optimize a species, facility and/or location-specific biological plan, production plan and harvest schedule for your farm, based on growth rates using ambient or controlled temperatures and species feeding rates.

FULL PROJECT FEASIBILITY STUDY

Provide a top-to-bottom, multi-faceted assessment of your project's biological, operational and economic strengths and risks.

RAS SYSTEM DESIGN

Deliver custom modular RAS designs or solutions for your hatchery or grow-out that are energy efficient and conserve water resources to create a controlled environment to rear fish in land-based systems.

GENETIC ANALYSIS AND SELECTIVE BREEDING PROGRAMS

Examine existing genetic variation within the broodstock population and determine whether more broodstock are needed. Through our partnership with the Center for Aquaculture Technologies (CAT) we offer comprehensive selective breeding programs.

FARM GROWTH/EXPANSION PLAN MODEL

Help you expand your farm by researching the ability of markets to bear increased production, opportunities in new markets, potential price fluctuations and oceanographic spatial opportunities.

DUE DILIGENCE AND M&A CONSULTING

Examine the state of facilities (land-based or net pens) and offer expert comment on the status of equipment and the potential for an acquisition to meet your business needs.

LEASE AND PERMIT APPLICATION SUPPORT

Support and streamline the permitting process for you by providing technical drawings and specifications of system components, analyzing impacts from conflicting ocean users and leveraging professional connections and prior experience.

THIRD-PARTY MARKET CERTIFICATION AND AUDIT PREP

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

FURTHER INFORMATION

Learn more at www.innovasea.com and follow us on [LinkedIn](#) or [Twitter](#).



About Innovasea

Innovasea designs the world's most technologically advanced aquatic solutions for fish tracking and fish farming – and builds them to withstand the toughest conditions. We partner with customers to fully understand their needs and solve their most pressing challenges. It's all driven by a commitment to make our ocean and freshwater ecosystems sustainable for future generations. **Today. Tomorrow. For life.**