

IMTA: Innovation today



TURKEY: ILDIRI KÖYÜ CESME IZMIR SITE

Camli, started integrated aquaculture production in Turkey in 1985 as a pioneer in the industry. The company produces 12000 tonnes sea bass and sea bream per year, produces fish in 3 different areas and has its own feedmill. Camli has a high experience in fish and mussel production. Camli is followed by Trix Index for 12 years by the authorities.

Camli has completed the research project on IMTA production model and environmental benefits of the system project supported by Scientific and Technological Research Council of Turkey. This project showed that IMTA model is one of the most sustainable production models in aquaculture sector.



Site:

Ildırı Köyü Cesme Izmir Site

Location:

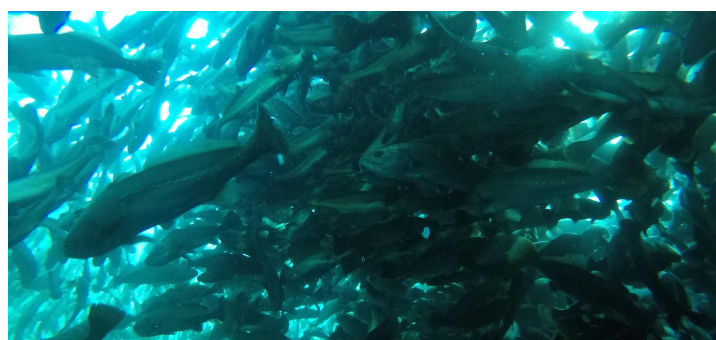
Ildırı Köyü Cesme Izmir, Turkey

Activity:

Offshore Marine Aquaculture

Operated by:

Camli Yem ve Besicilik San. Ve Tic. A.Ş.



PILOT SETUP

Camli pilot will produce fish (Sea bass) as fed species, mussel (black mussel) and seaweed (sea lettuce) as non fed species in the IMTA System. Fish will be deployed in circular offshore cages. Mussel is deployed in naylone bags having 6 m in lenght and hanged on to the PE pipes for stabilization of the bags in offshore conditions. Sea weeds are deployed in long line systems and a mesh system for evaluating the best practice. Fish, mussel and seaweed systems are deployed according to man current system. Mussels are extracting the organic matter dissolve from cages and seaweeds will extract the inorganic matter dissolved from the fish cages. IMPAQT project is consisting stock management, environmental impacts monitoring, like oxygen, temperature, salinity, pH, turbidity, chlorophyll and water current measurements, meteorological datas, underwater camera surveillance system for fish welfare monitoring with the smart system integration and Intelligent Management System.

OUTCOMES

The IMPAQT Intelligent Management System (IMS) reports real-time stock information, environment and fish welfare status and provides warning updates and advise on operational actions.

Informs on stock welfare conditions and growth based on the analysis of all data gathered.

Provides real-time operational information on the ecological footprint to help minimize impact with real time environmental modeling.

Analyses stock and makes recommendations on the optimal harvest times.

Informs on IMTA processes and rises consumer knowledge on IMTA food production. Informs the operator about the food safety, warns regular analyze timings, regulatory obligations and sampling.

Informs the operator about past and real time fish welfare conditions using image processing algoritms.



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