



By strengthening **partnerships** and **innovation** we can reduce production risks, hence attracting **investments**. Together with financial institutions we can share risks and increase the profitability of an aquascape.

At the same time we encourage **market recognition** of better aquaculture areas, leading to **Verified Sourcing Areas** which enable buyers to effortlessly source sustainable products.

Track Record in China

IDH has partnered with **China Blue** and the **Sustainable Fisheries Partnership** from 2014 to 2016 in a project on tilapia farming in Hainan. The project created and developed the Hainan Tilapia Sustainability Alliance, an Industry Alliance including diverse actors of the value chain. The alliance implemented a locally-developed Code of Good Practice (CoGP) for tilapia farming, thereby improving management practices and sustainability at the farm level. The farmers participating in the project have increased their survival rates from 50% to 76% and have reduced their Feed Conversion Ratio from 1.55 to 1.45, saving considerable feed costs. These figures show that the project improved the efficient use of natural resources.

One of the major lessons from the project was that diseases were still occurring frequently, although farmers implemented the Code of Good Practice. Disease risks remain high as the manually collected data could not provide enough and timely guidance for precaution measures.

Partners

Private
 ProGift
 Xiang' Tai
 Joann IT
 Yu2Le
 The Fishin' Company
 Hainan Tilapia Sustainability Alliance
 Maoming Tilapia Association

Other
 China Blue Sustainability Institute
 Sustainable Fisheries Partnership

Current Program in China

Since 2018, IDH is partnering with **China Blue** in a three-year project that aims to demonstrate that collaboration and data use can contribute to disease control and consequently feed efficiency. The project is mainly implemented in Hainan Province.

The project aims to improve collaboration by sharing information along the value chain. All value chain players, such as farmers, agents, processing plants and hatcheries share information into one aggregated information platform. All stakeholders receive performance and growth data of the fish. This enables for example the hatchery to understand how his fish performs, and it provides the processing plant information on when and what volumes to expect for the harvest.

Additionally, technology solutions are placed in the tilapia ponds such as automated sensors that measure water quality. These sensors also provide data to the farmers and to the information platform. The farmers learn when to adjust their water quality, and the sector as a whole learns what water quality problems need to be addressed for a stable production.

This information system can lead to improved practices by the individual value-chain players, as well as provide information to the market by creating transparency. The system also enables financial institutions to understand the risk levels of the sector, and to identify well performing farmers that can become their future clients.

Currently the project is focusing on including more data and technology solutions to increase the efficiency of Tilapia farmers. Several technologies will be piloted amongst farmers and together we learn on how to make more efficient use of resources.

IDH aims to learn how these solutions piloted under this project can be scaled so that the Chinese aquaculture industry, and the global aquaculture industry can become a sustainable sector, providing food for a growing world population without negatively impacting the environment.

More Info?

Please contact the Director for Aquaculture, Flavio Corsin

Corsin@ldhtrade.org

www.idhsustainabletrade.com/sectors/aquaculture/