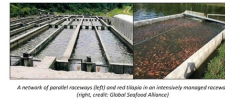


In-Pond Raceway Systems for Fish Farming

Revolutionize your fish farming with IPRS for maximum yields and sustainability.



WorldFish
Bernadette Fregene

The In-Pond Raceway System (IPRS) is an advanced aquaculture technology that maintains optimal water quality through continuous water flow and waste management, allowing for high-density fish farming.

This technology is [TAAT1 validated](#).

7•7



Scaling readiness: idea maturity: 7/9; level of use: 7/9

Cost: \$\$\$ **4 000 USD**

IPRS of 5 m long, 1.2 m wide, and 1.2 m deep

ROI: \$\$\$ **30 %**

Profit margin increased

0.5882 kg of fish

for 1kg of feed

1.57 USD

8-month total variable costs per kg

0.31 USD

8-month total fixed costs per kg



Patent granted

Problem

- Traditional pond farming limits fish productivity per area, reducing profits.
- Inadequate waste removal causes pollution and harms fish health.
- Traditional methods demand extensive land and labour, raising costs.
- Inadequate water circulation and oxygen levels lead to inefficient feed conversion.

Solution

- The In-Pond Raceway System (IPRS) enables stocking densities of up to 150 kg per cubic meter.
- IPRS recreates the fish's natural environment, promoting faster growth and keeping them free from diseases and stress.
- Production of higher-quality fish in less water and often exceeding traditional pond production by 200 to 300%.

Key points to design your business plan

The In-Pond Raceway System (IPRS) technology offers solutions for managing pests and diseases, improving fish yield and quality, and promoting sustainable aquaculture.

To integrate it in your business,

- Suppliers of IPRS equipment are crucial partners, considering its availability in Kenya and Nigeria.
- Integrating complementary technologies can further optimize its benefits, potentially increasing profit margins by up to 30% while conserving water.

Gender assessment **4**

Climate impact **7**

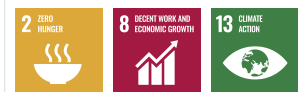
Technology from

ProPAS

Commodities

Fish

Sustainable Development Goals



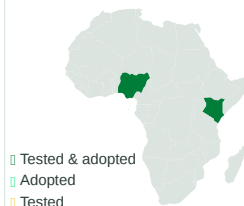
Categories

Production, Equipment,
Production System

Best used with

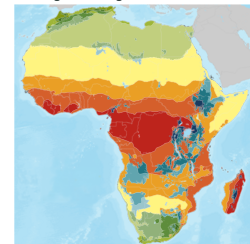
- [All Male Tilapia Fingerlings with Greater Yield and Uniformity >](#)
- [Fast Growing and Hybrid African Catfish >](#)

Tested/adopted in



Where it can be used

This technology can be used in the colored agro-ecological zones.



In-Pond Raceway Systems for Fish Farming

http://taatdb-web.com/technologies/in-pond-raceway-systems-for-fish-farming

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