# In-Pond Raceway Systems for Fish Farming



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

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.

Cost: \$\$\$) 4 000 USD

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

7.7

ROI: \$\$\$) 30 %

Profit margin increased

0.5882 kg of fish

**1.57** USD

0.31 usp

 $\bigcirc$ <sub>IP</sub>

8-month total variable costs for 1kg of feed per kg

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
- 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%.

# **WorldFis** Bernadette Fregene

Technology from

**ProPAS** 

Commodities

Fish

Sustainable Development Goals







#### Categories

Production, Equipment, Production System

### Best used with

- All Male Tilapia Fingerlings with Greater Yield and <u>Uniformity</u> >
- Fast Growing and Hybrid African Catfish >

## 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



Climate impact







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



