

## TAAT e-catalog for dev partners

# Rice-fish culture Integrating rice and fish farming systems

Rice-Fish System Boosts Profits, Enhances Lowland Land Use for Food Security and Prosperity

Rice-fish co-culture integrates rice and fish farming, boosting food security and farmers' income while ensuring environmental safety by eliminating agrochemicals. It's an innovative approach for food security, economic stability, and environmental sustainability.





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Commodities

Rice Fish

Sustainable Development Goals













Production, Practices, Water management, Soil fertility

#### Tested/adopted in





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



Target groups

Farmers, Fish Farmers





9.7





**Problem** 

• Food insecurity: Limited access to nutritious food, resulting in nutritional deficiencies.

This technology is <u>pre-validated</u>.

- Market vulnerability: Dependence on rice exposes farmers to market fluctuations, contributing to economic instability.
- Environmental pollution: Overuse of agrochemicals leads to soil and water pollution, harming biodiversity and ecosystem health.

### Solution

- Enhanced profitability: Rice-fish co-culture improves economic viability with a higher benefitto-cost ratio (2.2), addressing food insecurity.
- Market resilience: Rice-fish farmers demonstrate greater resilience to market shocks due to diversified income sources, ensuring economic
- Nutrition security: Fish consumption directly tackles nutritional deficiencies, enhancing food security with a diverse and nutritious diet.

Cost: \$\$\$ 5,428 USD Initial Cost per Ha

ROI: \$\$\$) 115 %

Benefit

Open source / open access

18,188 USD/ha

Operating Cost

3,016 USD

Benefit

