

# Affordable Fish Feed Production Formulation and Pelleting of Low-Cost Feeds



Feed formulation before (left) and after dry extrusion (right)

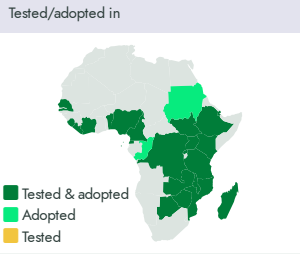
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Technology originally documented by  
**ProPAS**

Commodities  
Fish

Sustainable Development Goals

Categories  
Production, Inputs, Fertilizer



Where it can be used

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

Target groups  
Breeders

Empowering Aquaculture with Affordable Feeds

The technology “Formulation and Pelleting of Low-Cost Feeds” aims to reduce the cost of fish feeds in Sub-Saharan Africa, where fish farms spend about 60-70% of their budget on imported feed. It promotes the use of local resources to produce quality, cost-effective and balanced fish feeds. This innovation could enhance the profitability and sustainability of fish farming businesses.

This technology is **TAAT1 validated**.
 
**8·8**

 Scaling readiness: idea maturity 8/9; level of use 8/9

Gender assessment **4**

Climate impact **7**

### Problem

- Fish farming in Sub-Saharan Africa is costly due to expensive feeds.
- A large part of the cost is for imported feed ingredients.
- Simple, unprocessed grains used in feeds lead to poor nutrient transfer and pollution.
- High costs and inefficiencies limit the profitability of fish farming.

### Solution

- The technology makes affordable fish feeds using local products.
- Pelleted feeds improve nutrient transfer and reduce pollution.
- Pellets are easier to store and transport, reducing costs.
- The technology allows feed customization for different fish species.

Cost: **\$\$\$ 1,200 USD**  
Production of 1 ton

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**85,000 USD**  
Equipment of production

