

Mechanized Processing and Value Addition for Fish Products

From Catch to Cuisine: Enhancing Fish Quality and Sustainability



WorldFish
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This technology is a fish processing and preservation method involving the use of equipment such as solar tent dryers and smoking kilns. Solar dryers offer a low-cost alternative to refrigeration, and smoking kilns utilize smoke to kill microorganisms while drying the fish.

This technology is **TAAT1 validated**.
 8-7
 Scaling readiness: idea maturity: 8/9; level of use: 7/9

1500 USD			
Handheld electric fish scaler			
1,000 USD	2,500 USD	2,000 USD	
Filleting equipment	Equipment for skinning and deboning 10 to 20 fish/minute	A greenhouse-style solar dryer 15 m x 8 m with capacity of 850 kg fish per batch	Patent granted

Technology from
ProPAS

Commodities
Fish

Sustainable Development Goals

2 ZERO HUNGER

3 GOOD HEALTH AND WELL-BEING

5 GENDER EQUALITY

12 RESPONSIBLE CONSUMPTION AND PRODUCTION

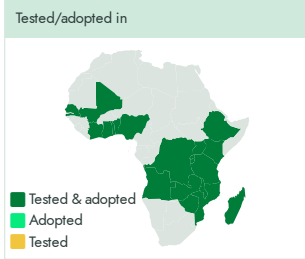
Problem

- Post-Harvest Losses, significant post-harvest losses occur due to bacterial activity and oxidation.
- High ambient temperatures in many regions accelerate the spoilage of fish,
- The availability of mechanized equipment and maintenance might pose challenges, particularly in resource-constrained areas.
- Traditional smoking kilns may consume significant energy and time.

Solution

- Fish processing and preservation technologies extend the shelf life of highly perishable fish, reducing post-harvest losses.
- These methods improve the palatability, taste, and nutritional value of fish products, enhancing their market acceptance.
- Solar tent dryers and smoking kilns are cost-effective and widely used, eliminating the need for refrigeration during transport and storage.

Categories
Transformation, Practices,
Agri-food processing



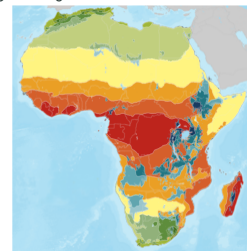
Key points to design your business plan

This technology benefits manufacturers, resellers, and end-users (farmers) in the fish processing industry.

- Key steps include sourcing raw materials, identifying efficient transportation methods, and exploring suitable storage facilities.
- Potential customers include wholesale distributors, development projects, and government agencies.
- Sourcing equipment from countries where technology is available, identifying efficient transportation methods, and exploring suitable storage facilities.
- Cost structure varies depending on equipment type and size, with initial investment offset by long-term savings in fuel costs.

Where it can be used

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



Target groups
Processors

Gender assessment

Climate impact



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<https://e-catalogs.taatafrica.org/com/technologies/mechanized-processing-and-value-addition-for-fish-products>

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