



Promising Technologies

The technologies showcased here are not yet ready to be scaled but are promising.

4 TECHNOLOGIES | CREATED ON JAN 28, 2025 BY TAAT PROFILING TEAM | LAST UPDATED JAN 28, 2025



TECHNOLOGIES IN THIS TOOLKIT

EQUIPMENT

- **QualiSani**: Grilling/Smoking equipment with chimneys and...

DIGITAL APPLICATIONS

- **Seeds2B Toolkit**: Improved Variety Commercialization Toolkit

PRACTICES

- **LIFE Plant Biostimulants**: Approach

to produce microbials fertilizers

- **SOP**: Standard Operating Procedure for Tilapia hatcheries



<https://e-catalogs.taatafrica.org/toolkits/4xgbsgnznmhm8elsuamgs0f1bw19ncs9>

QualiSani: Grilling/Smoking equipment with chimneys and combustion chamber.



With QualiSani, no more toxic compounds such as Polycyclic Aromatic Hydrocarbons (PAHs) in your smoked fish and grilled meat, and reduction of cancer risk for consumers.

The QualiSani is a equipment for grilling and smoking meat and fish, featuring a combustion chamber and a grilling chamber with a capacity of 20–30 kg. It includes five grids, smoke evacuation chimneys, and a handling window for heat regulation. A granite filter is used to capture contaminants, ensuring a cleaner cooking process.

Laboratoire des Sciences et Technologies Alimentaires (LaSTA) de la FSA, Université d'Abomey-Caliavi, Benin
Dr Ir Mahunan François ASSOGBA

Warning: This technology is **not yet validated**.
 Scaling readiness: idea maturity 9/9; level of use 4/9

Gender assessment **1**

Climate impact **2**

Problem

- Traditional smoking and grilling methods lead to high contamination of products posing significant health risks.
- Inefficiency of Existing equipment for smoking and grilling
- Critical need for improved equipment to reduce contamination and meet the needs of both processors and consumers in regions like Benin.

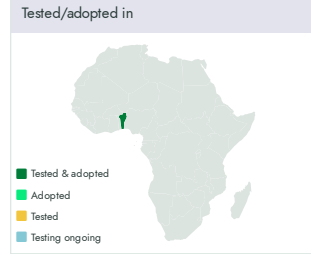
Solution

- Granite Filter:** Incorporates a granite filter to capture and reduce harmful Polycyclic Aromatic Hydrocarbons (PAHs) from smoke.
- Improved Equipment Design:** Features two chambers (combustion and grilling/smoking) with advanced heat regulation and smoke evacuation systems to minimize contamination.

Commodities
Fish, Other animal

Sustainable Development Goals

Categories
Transformation, Equipment, Agrifood processing



Key points to design your project

The adoption of QualiSani equipment for grilling and smoking offers a solution to improve food safety and processing efficiency. Key steps to integrate this technology include:

- Educate food processors and stakeholders about the benefits of QualiSani equipment,
- Facilitate the local manufacturing of QualiSani equipment to meet processing needs.
- Provide comprehensive training and technical support to ensure effective use and maintenance of the equipment.

Cost: **\$\$\$ 1491 USD** Per unit
30 % Benefit
 Patent granted

Target groups

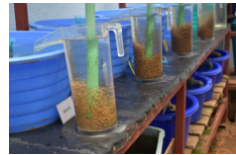


QualiSani
<https://e-catalogs.taatafrica.org/gov/technologies/qualisani-grillingsmoking-equipment-with-chimneys-and-combustion-chamber>
 Last updated on 26 August 2024, printed on 10 December 2024

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SOP: Standard Operating Procedure for Tilapia hatcheries

SOP for a productive, high value and market-oriented aquaculture sector.



WorldFish
Bernadette Tosan Fregene

Standard Operating Procedures (SOPs) provide clear, step-by-step instructions for performing routine tasks in fish farming. They ensure consistent and high-quality operations, covering important areas like daily care, water quality, and fish health management.

Warning: This technology is **not yet validated**.

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

Gender assessment **3**

Climate impact **2**

Problem

- Low production capacities mainly due to poor management of broodstocks,
- Low survival rates of the produced fries/fingerlings,
- Poor growth rates and others

Solution

SOPs allows fish farm owners to reduce:

- The likelihood of a disease outbreak,
- Mass fish mortality,
- Significant financial losses due to the loss of fish, and
- SOPs are a useful tool that maintain farm quality standards.

Key points to design your project

Implementing Standard Operating Procedures (SOPs) for tilapia hatcheries promotes food security, sustainable aquaculture practices, and economic growth.

- To incorporate SOPs into your project, consider:
- Assessing feasibility,
- Developing supportive regulations, and
- Providing training for farmers on broodstock management, water quality, and fish health.

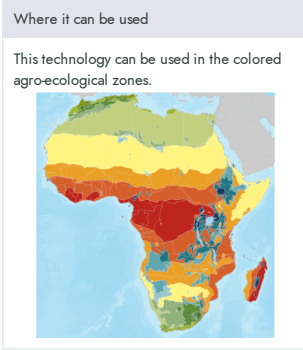
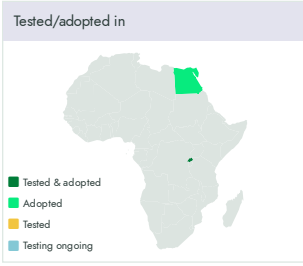


Open source / open access

Commodities
Fish

Sustainable Development Goals

Categories
Production, Practices, Water management, Yield improvement



Target groups
Fish Farmers



SOP
<https://e-catalogs.taatafrica.org/gov/technologies/sop-standard-operating-procedure-for-tilapia-hatcheries>

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Last updated on 11 July 2024, printed on 10 December 2024



Promising Technologies

<https://e-catalogs.taatafrica.org/toolkits/4xgbsgnzmnhm8elsuamgs0f1bwl9ncs9>

ABOUT US

TAAT

TAAT, Technologies for African Agricultural Transformation, is an African Development Bank initiative to boost agricultural productivity by rapidly rolling out proven technologies to more than 40 million smallholder farmers.

TAAT aims to double crop, livestock, and fish productivity by 2025 by engaging both public and private sectors to expand access to productivity-increasing technologies across the continent. TAAT advises African government who receive funding from international financial institutions such as the African Development Bank to help them integrate the best agricultural technologies in their development projects. TAAT also offers technical assistance for the integration of these technologies, when needed.

TAAT Technologies

TAAT definition of agricultural technologies is very broad: they include improved varieties, inputs, equipment, agricultural infrastructure, practices and agricultural policies. In short, any solution to an agricultural constraint. TAAT technologies have been developed by a wide variety of organizations: the CGIAR, other international research institutions, national research organizations, or the private sector.

TAAT Clearinghouse

Within TAAT, the Clearinghouse has the remit to select, profile and validate agricultural technologies, and showcase them in online

catalogs to support the advisory role that the Clearinghouse offers to governments and the private sector. The Clearinghouse strives to be an 'honest broker' of technologies through its selection, profiling, validation and advice.

TAAT e-catalogs

The e-catalogs are designed to be used by decision-makers within governments, private sector companies or development organizations. They facilitate the search for appropriate solutions that are adapted to local conditions and requirements, and provide all necessary information, presented in jargon-free and easy to analyze technology profiles. Once a decision-maker has selected a technology of interest, the e-catalogs facilitate their direct contact with those who can help them implement the technology, whether they are a research group or a private company.

TAAT Technology Toolkits

Technology toolkits are hand-picked selections of technologies from the TAAT e-catalogs. We offer some curated toolkits for specific cases, and registered users can create their own toolkits, showcasing their selection of technologies. Toolkits can be used online and shared as links, as mini e-catalogs, they can also be downloaded, saved, shared or printed as collections of technology pitches in PDF format (pitches are one-page summaries of technology profiles, available for all technologies on the e-catalogs).

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