



Rice Technologies Toolkit

This toolkit is a collection of technologies designed to optimize rice cultivation in Africa. These technologies have been carefully selected to address the challenges faced during rice production and transformation, ensuring a more resilient and profitable rice sector. By integrating these technologies into your projects or business plan, you can maximize your yields while minimizing...

17 TECHNOLOGIES | CREATED ON JUN 10, 2024 BY TAAT PROFILING TEAM | LAST UPDATED MAY 28, 2025



TECHNOLOGIES IN THIS TOOLKIT

- RiceAdvice digital support
- Herbicides Calculator
- Rice Swarna 2
- **Trace**: FairFood Traceability Solutions
- **Rice-fish culture**: Integrating rice and fish farming systems
- AKILIMO: Digital Decision Support Tool
- **RiceAdvice Lite**: Digital Advisory for Rice

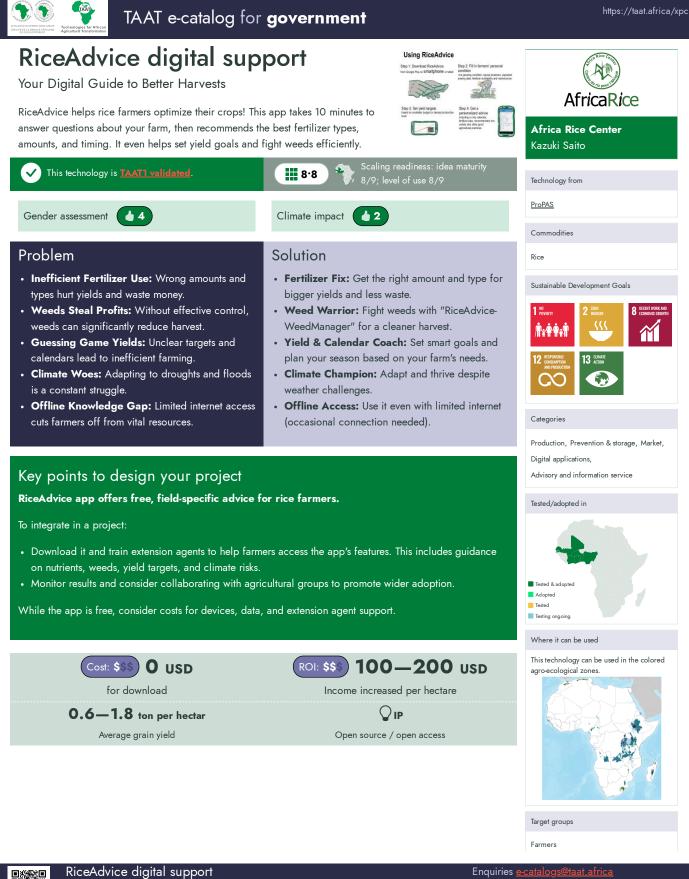
- Rice Threshing and Polishing Machines: Axial flow thresher and...
- **ARICA**: Advanced rice varieties for Africa
- Urea deep placement: Nitrogen management for Efficient Rice...
- Foliar micronutrient addition for healthier rice
- **GEM system**: Parboiling equipment for rice
- NERICA: High yield rice varieties for

Africa

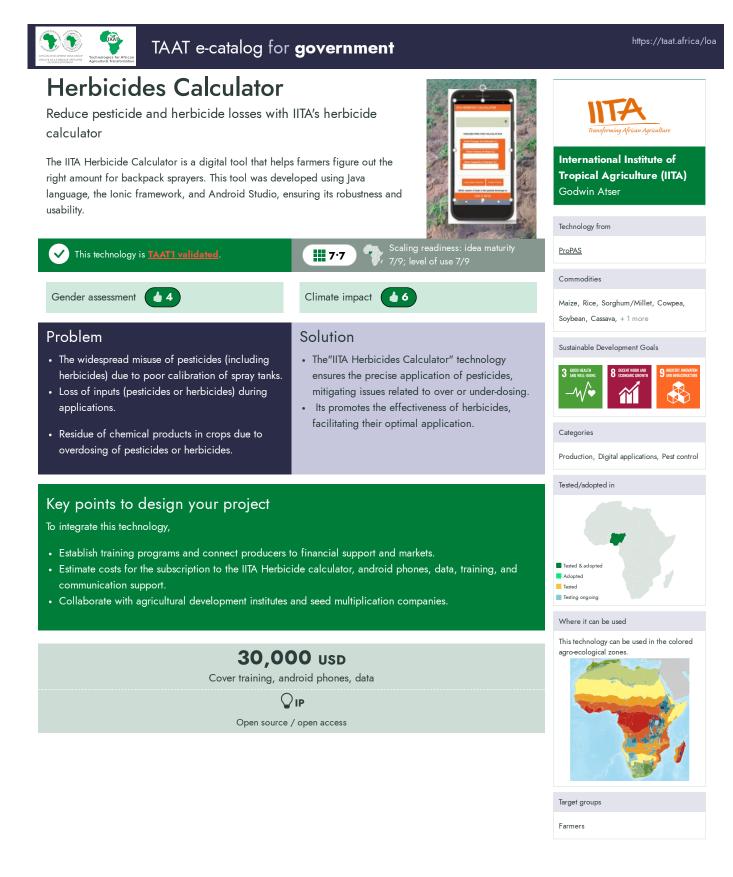
- **ORYLUX varieties**: Aromatic Rice for Africa
- Precision Rice Irrigation and Surface Leveling
- Cut and Bury: Motorized weeders for rice production
- **PICS**: Hermetic Bags for Safe Storage of grain



& <u>https://taat.africa/ntx</u>



https://taat.africa/xpc Last updated on 22 May 2024, printed on 15 May 2025







Rice Swarna 2

Unleashing Prosperity with Resilient Rice - Medium Cycle, Maximum Yield, Unmatched Quality

Rice Swarna 2 F1 is an advanced rice variety designed for high yields (up to 12 MT/ha), superior milling quality (over 70%), and strong resistance to diseases like BLB and blast. It offers double the yield of traditional OPVs, leading to increased profitability for farmers. This technology represents a significant shift towards sustainable, high-yield agriculture.





Advanta Seeds Ibrahim Shindu

Rice Sustainable Development Goals Categories

Production, Improved varieties, Yield improvement, Quality improvement

Best used with

- <u>Nitrogen management for</u> Efficient Rice Fertilization >
- Foliar micronutrient addition for healthier rice >
- Motorized weeders for rice production >
- RiceAdvice digital support >
- Axial flow thresher and improved quality polishing >
- Parboiling equipment for rice >

Tested/adopted in Tested & adopted Ad opted Tested Testina ona oina

Where it can be used

Enquiries e-catalogs@taat.africa

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



Commodities

6 Climate impact

enhancing food security.

70%, it improves market value.

resistance to fungal diseases.

Low Yields: Rice Swarna 2 yields up to 10 MT/ha,

Insufficient Milling: With a milling percentage over

Reduced Tolerance to Bacterial Disease: It's

Blast Disease Susceptibility: It also has strong

engineered to resist bacterial diseases.

9.9

Solution

Problem

Gender assessment

Low Yields: Poor farming and weather affect rice yields.

4

This technology is pre-validated.

Insufficient Milling: Bad milling leads to money loss.

Reduced Tolerance to Bacterial Disease: Vulnerability to a bacterial disease causes yield losses.

Blast Disease Susceptibility: Lack of resistance to a fungal disease results in crop losses.

Key points to design your project

Rice Swarna 2, a high-yielding and disease-resistant rice variety, tackles gender inequality (SDG 5) and climate change (SDG 13). Increased yields can empower women farmers by improving food security and livelihoods. Reduced disease might lead to less pesticide use, benefiting the environment.

Successful implementation requires a plan:

- Secure certified seeds and suitable land with proper drainage and irrigation.
- Train farmers on specific planting methods for Swarna 2.
- Plant Swarna 2 seeds according to recommended spacing.
- Implement proper weed control, fertilization, and irrigation throughout the season.
- · Monitor crop health and assess yield to measure success and identify areas for improvement.

Remember: Access to necessary tools and equipment is crucial.

(Cost: \$\$\$) 115 USD

Average cost of seeds for a farmer /ha

2000 USD Average gross income /ha 475 USD

Total input costs /ha



Rice Swarna 2 https://taat.africa/zza Last updated on 16 September 2024, printed on 15 May 2025

Trace: FairFood Traceability **Solutions**

Easy-to-use solution for food traceability

Trace technology is an advanced tracking solution for agricultural and foodrelated companies, offering transparency and sustainability. It enhances consumer trust by providing clear and verifiable data about a product's journey and ethical production practices.

C This technology is <u>pre-validated</u> .	Scaling readiness: idea maturity 9/9; level of use 7/9	Common bean, Cassava, Cowpea, Leguminous, Maize, Sorghum/Millet, + 9 more
Gender assessment	Climate impact	Sustainable Development Goals
Problem	Solution	9 NORSKY, NANKATING NO RRACINGCTER 3 JATON
 Agri-food companies struggle with risk mitigation in their operations. 	 Traceability solutions enable showcasing the precise origin of products. 	
 Transparent traceability of agri-food products is 	 Transparent sharing of evidence supporting brand 	Categories
challenging to ensure.	values with the public.	Production, Prevention & storage,
• The food industry lacks sufficient tools for storing	 FairFood's traceability solutions contribute to 	Transformation, Market, Pre-production,
and managing essential data.	increased income for farmers.	Digital applications, + -3 more

• Foster transparency and trust, helping create fairer compensation mechanisms within the agri-food supply chain.

Key points to design your project

"FairFood Traceability Solutions" offers a digital platform to enhance transparency and trust in the agri-food supply chain. To integrate this technology into your project,

- Accessing the platform and installing the necessary software, considering associated costs.
- Configure the platform with relevant supply chain information and provide training and ongoing support to personnel.
- Utilize the platform to track product movement and share transparent information.

11,070 USD Initial investment

110 USD

Social Return on Investment per farmer per YEAR

22.14 USD

subscription/user/year

3,320 USD Operating Investment /YEAR



Open source / open access

FAIRFOOD

Fairfood Marten van Gils

Commodities

Tested/adopted in

Tested & adopted Ad opted Tested 📕 Testing ongoing

Where it can be used

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

Target groups

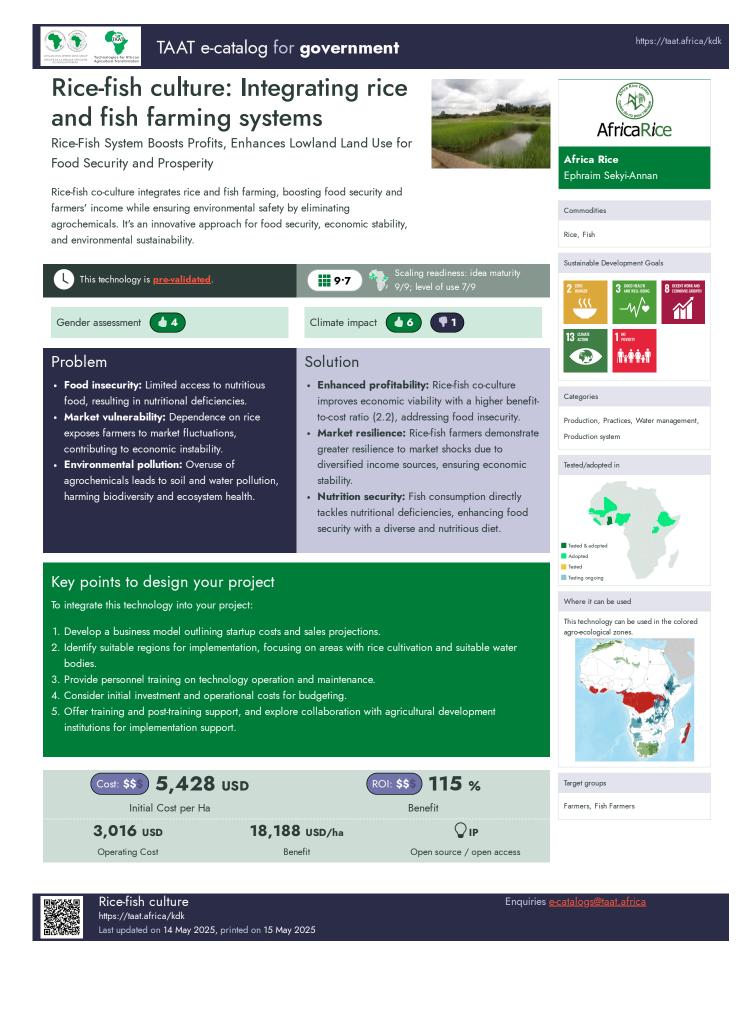
Enquiries <u>e-catalogs@taat.africa</u>

Breeders, Farmers, Processors, Fish Farmers, Sellers



Trace https://taat.africa/gbu Last updated on 19 August 2024, printed on 15 May 2025





AKILIMO: Digital Decision Support Tool

We know cassava

AKILIMO is a digital application that provides personalized cassava farming advice using advanced algorithms. It offers guidance on planting, fertilizing, and harvesting based on user inputs, aiming to maximize yield and profit. It's accessible through various platforms, catering to all literacy levels.

U This technology is **pre-validated**.

Gender assessment

Problem

- Lack of Guidance: Farmers lack personalized advice for optimal crop management and input usage.
- Poor Strategies & Productivity: Limited guidance leads to suboptimal farming strategies and lower productivity.
- Inefficiency & Unsustainability: Without proper advice, resource usage is inefficient and farming practices may be unsustainable.

Solution

8∙7

Climate impact

• **Personalized Advice**: AKILIMO offers tailored, data-driven crop management recommendations.

8/9; level of use 7/9

47

- Analytics & Optimization: It uses advanced analytics for resource optimization, improving yields and reducing costs.
- **Sustainable Practices**: AKILIMO promotes environmentally friendly and responsible farming.

Key points to design your project

AKILIMO offers tailored advice for cassava farming, addressing key challenges like nutrient management, weed control, yield goals, climate risks, and resource access. It optimizes production, boosts profits, and minimizes waste.

Integrating AKILIMO:

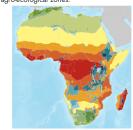
- **Partnership:** Partner with EiA for advanced analytics and agronomic expertise, and with Extension Agents for effective farmer outreach and optimal use of AKILIMO.
- Awareness & Training: Host events and training to educate farmers and agents on AKILIMO's benefits and usage.
- **On-field Support:** Employ agents to assist farmers with AKILIMO navigation and advice application.
- Accessible Interfaces: Provide AKILIMO via printable guides, apps, IVR, and chatbots.
- Demo Plots: Showcase AKILIMO's effectiveness in demo plots to build trust.
- Feedback Mechanism: Establish feedback channels to enhance AKILIMO based on user input.
- Expansion: Scale AKILIMO to new regions and crops for broader impact.

Continuous efforts and farmer-centric focus are essential to making AKILIMO a valuable farming tool.

ROI: \$\$\$ 2567 %



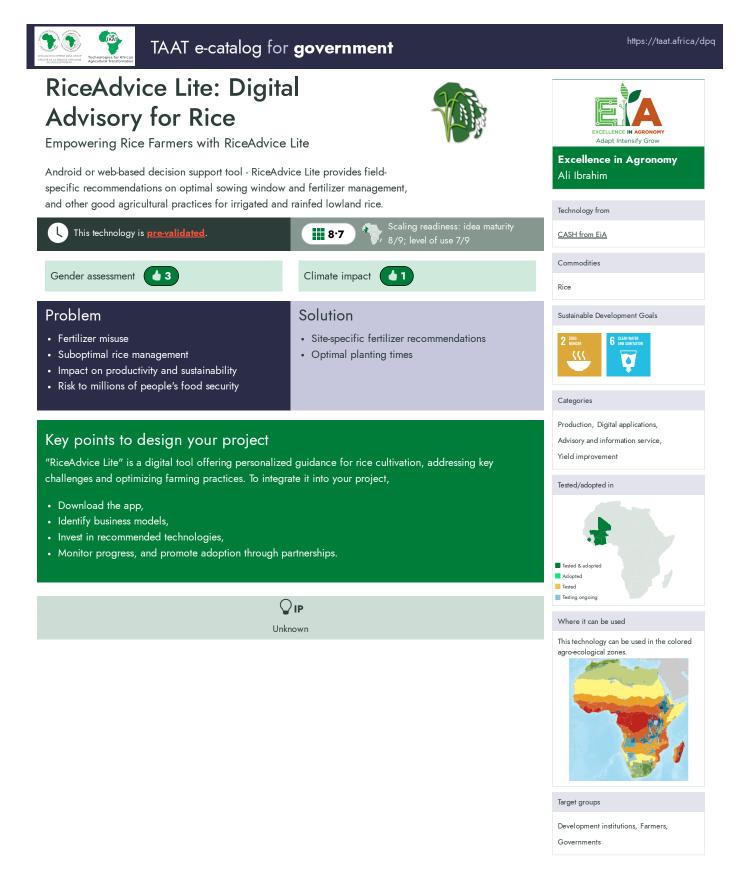




Target groups



AKILIMO https://taat.africa/wuh Last updated on 21 March 2025, printed on 15 May 2025





RiceAdvice Lite https://taat.africa/dpq Last updated on 30 August 2024, printed on 15 May 2025



Rice Threshing and Polishing Machines https://taat.africa/oie Last updated on 11 December 2024, printed on 15 May 2025



ARICA: Advanced rice varieties for Africa

Arica rice, the high yield, disease and stress tolerant rice

ARICA hybrid rice lines offer high yields and resistance to diseases and





Africa Rice Center Sali Atanga Ndindeng

ood security in Africa.		ProPAS
This technology is TAAT1 validated .	Scaling readiness: ide 7/9; level of use 7/9	ea maturity Commodities
_		Rice
Gender assessment	Climate impact	Sustainable Development Goals
roblem	Solution	1 ¹⁰⁰ 1 ¹⁰⁰ 1 ²⁰⁰ 1 ¹⁰⁰ 小山山山の ((()
Traditional rice varieties in Africa yield inadequately.	ARICA varieties offer increased proc profitability.	ductivity and
Common rice diseases and pests dimir	. ,	Passes and
and threaten food security.	pests, ensuring stable yields.	
Environmental variability poses signific	• ARICA hybrids withstand environment	ntal stresses,
challenges, affecting crop growth and		Categories
productivity.	ARICA varieties thrive in diverse agr	Production, Improved varieties,
Traditional rice varieties struggle to ad		Yield improvement, Quality improvement
diverse agroecosystems, resulting in su performance.	 Some ARICA lines possess traits like resistance and iron toxicity tolerance 	
	specific challenges.	<u>Nitrogen management for</u>
		Efficient Rice Fertilization >
		Foliar micronutrient addition
ey points to design your p	project	<u>for healthier rice ></u>
Steps to integrate ARICA technology:		Precision Rice Irrigation and
 Develop and certify tailored ARICA 	varieties.	<u>Surface Leveling ></u>
• Raise farmer awareness about bene	fits.	Motorized weeders for rice
		production >
• Facilitate financial support for seed	l purchases.	
Provide training on cultivation and		<u>RiceAdvice digital support ></u>
 Provide training on cultivation and Accompanying solutions: 	management.	• <u>RiceAdvice digital support ></u>
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 Provide training on cultivation and Accompanying solutions: Deep urea placement for nitrogen r Foliar micronutrient addition for cross Engineered irrigation surfacing and Motorized weeders for effective wee RiceAdvice digital support for composition 	management. pop nutrition. water lifting. eed control. prehensive guidance. USD ROI: \$\$\$ 40 %	 RiceAdvice digital support > RiceAdvice digital support > Tested/adopted in Tested & adopted Adopted Tested Tested Tested Tested adopted Tested & adopted







Foliar micronutrient addition for healthier rice

Targeted nutrients for stronger crops and richer grain

CODP Technologies for African Agricultural Transformation

Foliar micronutrient addition involves spraying liquid fertilizers onto rice leaves and stems. This ensures quick nutrient absorption, improving yields and grain

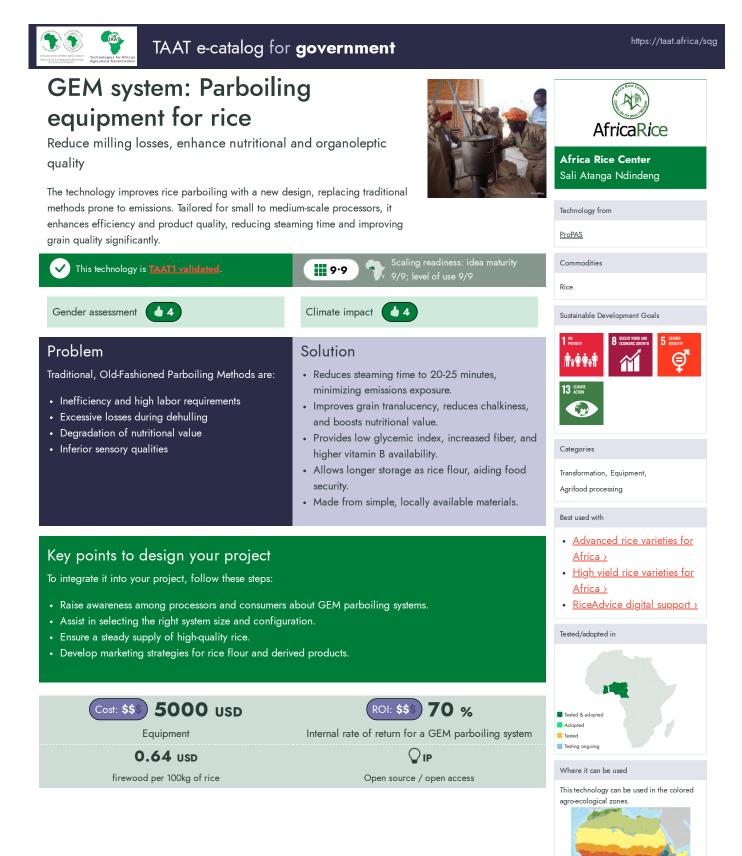


AfricaRice

Africa Rice Center Sali Atanga Ndindeng

specially in nutrient-deficient soils.		ProPAS
✓ This technology is <u>TAAT1 validated</u> .	8·8 Scaling readiness: idea maturity 8/9; level of use 8/9	Commodities
Gender assessment	Climate impact	Rice Sustainable Development Goals
 Problem Micronutrient Deficiencies and Low Yields: Rice crops often lack essential micronutrients like zinc, copper, and boron, leading to low yields and poor grain nutrition. Soil Nutrient Depletion: Soils in Sub-Saharan Africa are increasingly depleted of vital nutrients, impacting crop health. Inefficient Nutrient Uptake and Crop Vulnerability: Traditional soil-based fertilizers result in inefficient nutrient absorption, making crops more susceptible to diseases and environmental stresses 	 Solution Targeted Micronutrient Application and Efficient Uptake: Spraying essential micronutrients like zinc, copper, and boron directly onto leaves addresses deficiencies, enhances nutrient availability, and maximizes absorption efficiency. Increased Yields and Grain Quality: Improved nutrient uptake results in higher rice yields and better nutritional quality. Soil Health Improvement and Crop Resilience: Supplementing with foliar micronutrients counteracts soil nutrient depletion and strengthens crops against diseases and 	2 Missa 1 Mintre 1 Mintre 12 Missa 13 Mintre 10 Mintre 13 Mintre 10 Mintre Categories 10 Mintre Production, Inputs, Fertilizer 10 Mintre Tested/adopted in
	environmental stress.	Tested & adopted
agriculture, aligning with goals for food security and • Inform farmers, assess micronutrient deficiencies, f • Estimate fertilizer and sprayer quantities, considering	environmental stress. content in Sub-Saharan Africa. It promotes sustainable poverty reduction. To integrate this technology, formulate application plans, and provide resources.	First & adopted & adopt
This technology on rice addresses low micronutrient of agriculture, aligning with goals for food security and Inform farmers, assess micronutrient deficiencies, f Estimate fertilizer and sprayer quantities, considerin Training, communication support, and collaboration implementation. Cost: \$\$\$ 41.1 USD Fertilizers	environmental stress. content in Sub-Saharan Africa. It promotes sustainable poverty reduction. To integrate this technology, formulate application plans, and provide resources. Ing delivery costs. on with agricultural institutes are crucial for successful ROI: \$\$ 7-30 %	<text></text>





Enquiries <u>e-catalogs@taat.africa</u>



GEM system https://taat.africa/sqg Last updated on 5 February 2025, printed on 15 May 2025



NERICA: High yield rice varieties for Africa

NERICA: Higher Yields, Resilience, and Profitability for African Farmers.

NERICA varieties are tailored for African conditions, offering high yields (2 to 6 tons per hectare), resistance to weeds and drought, and adaptability to poor soils. They show moderate resistance to diseases and pests, reducing the need for chemical interventions and promoting sustainable agriculture in Africa.

✓ This technology is <u>TAAT1 validated</u>.

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

4

Problem

Gender assessment

• Traditional rice varieties often yield less, impacting food security and farmers' income.

4

- Conventional varieties are more susceptible to pests and diseases, leading to yield losses.
- Many varieties struggle in nutrient-poor soils and under erratic rainfall.
- Insufficient local production leads to heavy reliance on imported rice, affecting economic stability.

Solution

Climate impact

- NERICA varieties yield more, ensuring food security and higher income.
- They resist pests and diseases, reducing chemical use.
- Thrives in poor soils and limited water, suitable for diverse environments.
- Boosts local production, enhancing economic stability.
- Accessible to small-scale growers, improving practices and income.

Key points to design your project

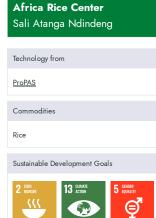
To integrate NERICA technology into your project, consider the following steps:

- Develop NERICA varieties tailored to local growing conditions.
- Conduct awareness campaigns to highlight the benefits of planting improved rice varieties.
- Ensure equitable access and financial support for local suppliers and farmers.
- Estimate seed quantity needed, including technology costs and delivery expenses.
- Engage a team of trainers for installation support and develop communication materials.
- Consider optimizing NERICA with other agricultural practices like nitrogen management and weed control.
- Collaborate with agricultural institutes and seed companies for implementation.

 Cost: \$\$\$
 0.8—1.2 USD

 Per kg of seeds
 25—39 %

 1.7—0.7 ton per ha
 Image: Cost of the second secon



Africa Rice

Categories

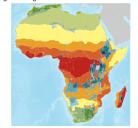
Production, Improved varieties,

Yield improvement, Drought tolerance



Where it can be used

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



araet	aroups	

Farmers, Seed companies



NERICA https://taat.africa/ish Last updated on 11 December 2024, printed on 15 May 2025



Africa Rice

Africa Rice Center

Technology from

Sali Atanga Ndindeng

ORYLUX varieties: Aromatic Rice for Africa

Local African aromatic rice

This technology is all about growing special types of delicious-smelling rice in Africa. These rice varieties are designed to grow well in African conditions. They taste really good and are in high demand. Right now, not enough of this rice is grown in Africa, so a lot of it has to be imported.

ProPAS \checkmark This technology is **<u>TAAT1 validated</u>**. 7.7 Commodities Rice Gender assessment 4 Climate impact 2 Sustainable Development Goals Problem Solution 13 CUMA • Low production of aromatic rice in Sub-Saharan • Development of aromatic rice varieties tailored to Africa (SSA) SSA's agroecosystems • High dependence on imports from Asia • Crossbreeding with elite lines to maintain high • Limited access of farmers to seeds suited to yields and beneficial traits Categories prevalent growing conditions • Utilization of genetic mapping and molecular Production, Improved varieties, • Lack of aromatic rice varieties adapted to SSA's tools for faster breeding Quality improvement • Dissemination of ORYLUX seeds in local markets conditions • Need to improve yields, quality, and resistance of to increase availability Tested/adopted in rice crops • Establishment of connections between farmers, • Insufficient connections between stakeholders for processors, and consumers for value maximization commercialization Tested & adopted Ad opted Key points to design your project Tested Testing ongoing 1. Identify suitable ORYLUX varieties. Where it can be used 2. Raise awareness about its benefits. 3. Ensure access to seeds and support. This technology can be used in the colored agro-ecological zones 4. Estimate seed quantity and costs. 10 5. Provide training and communication support. 6. Collaborate with institutes and companies for implementation. (Cost: \$\$\$) 1,3 USD A Seed cost per kg 200 USD per **10—12** кg 51 USD per Ha 105 USD per Target groups per Ha Labour costs for Ha Ha Unknown planting Farmers, Seed companies, Sellers Planting densities Fertilizer inputs Harvesting and

winnowing of grain

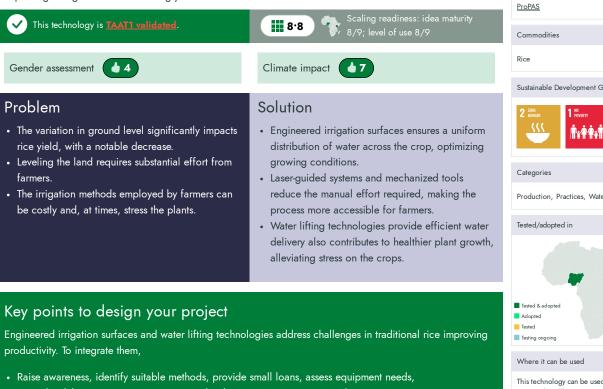


ORYLUX varieties https://taat.africa/akt Last updated on 11 December 2024, printed on 15 May 2025

Precision Rice Irrigation and Surface Leveling

Level Up Rice Yields with Precision Irrigation and Resource Conservation

These technologies involve creating flat surfaces in rice fields and using pumps to evenly distribute water. This helps farmers save water, energy, and nutrients, improving rice growth and increasing yields.



- Consider delivery costs, engage trainers, develop communication materials,
- Collaborate with institutes, and associate with Motorized weeders for a comprehensive and sustainable approach.

Cost: \$\$3 4 700-5 500 USD					
Add-on equipment					
30-80 USD	1 000 USD	800 USD	∏ IP		
Hand-operated pumps	Solar-powered pump	High-pressure pumps	Unknown		



Africa Rice Center Sali Atanga Ndindeng

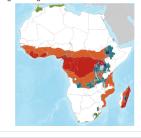
Technology from



Production, Practices, Water management



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



Target groups

Farmers



Precision Rice Irrigation and Surface Leveling https://taat.africa/ugh Last updated on 21 August 2024, printed on 15 May 2025



Africa Rice

Africa Rice Center

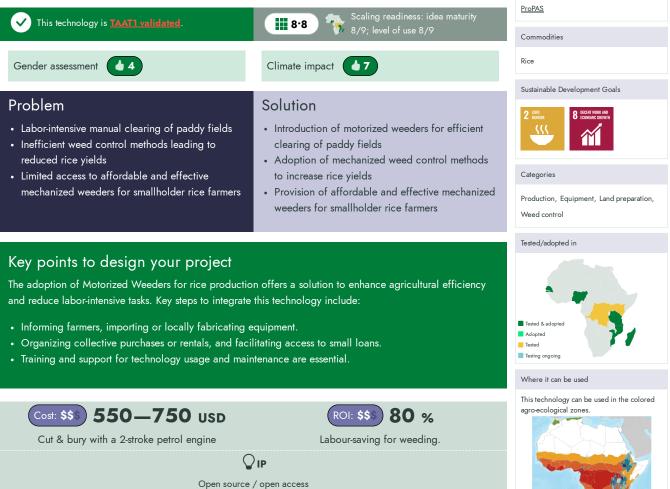
Technology from

Kalimuthu Senthilkumar

Cut and Bury: Motorized weeders for rice production

Effortless Weed Control for Bountiful Harvests

The Motorized Weeders for rice production (cut and bury) technology eliminate weeds in rice crops. The rotating blades of the weeders ensure effective weeding while minimizing damage to rice crops and soil. These machines can be used from the germination of rice plants until the canopy closes.



Target groups Farmers

PICS: Hermetic Bags for Safe Storage of grain

Low cost storage technologies for grain

This technology is **TAAT1 validated**

Inclusion assessment

storage methods.

Problem

losses.

4

Africa lose over 25% of beans due to inadequate

• Post-harvest losses: Farmers in Sub-Saharan

• Pest infestations: Weevils, moths, and mites

damage stored beans, forcing farmers to sell at

low prices immediately after harvest to minimize

• Fungal contamination: Traditional storage can

contaminating beans and reducing their quality.Food security issues: Ineffective storage hinders

consumption between harvests, threatening food

lead to fungal growth, such as aflatoxin,

farmers' ability to keep enough beans for

Hermetic bags are like super-sealed containers that stop air and moisture from reaching the grains inside. This way, farmers can store their grains for up to two years without them getting bad. This is good for farmers because it means they always have enough food and can sell their grains for better prices.



Purdue Improved Crop Storage PICS GLOBAL Laurie Kitch

Technology from

ProPAS Commodities Common bean, Rice, Wheat, Maize, Sorghum/Millet, Soybean Sustainable Development Goals 3 constraint ble 13 cmm 13 cmm 13 cmm 15 the

Categories

Prevention & storage, Equipment, Post-harvest handling

Best used with

Mechanized Threshing Operations See all 1 technologies online

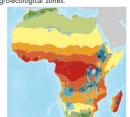
Tested/adopted in



Where it can be used

Enquiries e-catalogs@taat.africa

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



Solution

Climate impact

9.9

 Airtight sealing: The multi-layer design blocks air and moisture, preventing pest infestations without chemicals.

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

- **Moisture control**: Hermetic bags maintain stable moisture levels, inhibiting fungal growth like aflatoxin.
- **Long-term preservation**: They preserve beans for up to two years, maintaining quality and cooking time.
- **High durability**: Made from strong, reusable materials, hermetic bags ensure reliable grain storage.

ROI: \$\$\$ 90 %

Reduction of loss

 \bigcirc IP

Trademark

Key points to design your project

To integrate PICS bags into your project:

security and livelihoods.

- Cost Analysis: Bags cost \$1 to \$1.5 each (50kg or 100kg capacity). Estimate the number needed.
- Supply Chain: Identify suppliers, including delivery costs and any import duties.
- Training: Budget for training sessions and ongoing support.

Cost: \$55 2—3 USD Bag cost for users

50 or 100 Kg

Bag capacity

- Communication: Create promotional materials (flyers, videos, etc.).
- Grain Preparation: Ensure grains are properly dried before storage, using moisture measurement devices
 if necessary.

2 year

Life span

These steps will help enhance food security and reduce post-harvest losses.





Rice Technologies Toolkit

& https://taat.africa/ntx

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).



CONTACT

TAAT is funded by the African Development Bank, the TAAT Clearinghouse is co-funded by the Bill and Melinda Gates Foundation and the African Development Bank.