RiceAdvice digital support

Your Digital Guide to Better Harvests

RiceAdvice helps rice farmers optimize their crops! This app takes 10 minutes to answer questions about your farm, then recommends the best fertilizer types, amounts, and timing. It even helps set yield goals and fight weeds efficiently.

Africa Rice Center
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This technology is TAAT1 validated.

8·8 Scaling readiness: idea maturity 8/9; level of use8/9

Project adoption 3

Technology integrated in the 2PAU, ENSURE, and PUPSAN projects.

Inclusion assessment 4

Climate impact 2

Problem

- **Inefficient Fertilizer Use:** Wrong amounts and types hurt yields and waste money.
- **Weeds Steal Profits:** Without effective control, weeds can significantly reduce harvest.
- **Guessing Game Yields:** Unclear targets and calendars lead to inefficient farming.
- **Climate Woes:** Adapting to droughts and floods is a constant struggle.
- **Offline Knowledge Gap:** Limited internet access cuts farmers off from vital resources.

Solution

- **Fertilizer Fix:** Get the right amount and type for bigger yields and less waste.
- **Weed Warrior:** Fight weeds with "RiceAdvice-WeedManager" for a cleaner harvest.
- **Yield & Calendar Coach:** Set smart goals and plan your season based on your farm's needs.
- **Climate Champion:** Adapt and thrive despite weather challenges.
- **Offline Access:** Use it even with limited internet (occasional connection needed).

Key points to design your program

RiceAdvice supports the transition to precision digital agriculture by providing personalized agronomic recommendations that optimize fertilizer, weed, and crop management across irrigated, rainfed lowland, and upland rice systems. Suitable for climate-smart agriculture, digital extension, and rice intensification programmes, the technology contributes to **SDGs 1 (No Poverty), 2 (Zero Hunger), 8 (Decent Work and Economic Growth), 12 (Responsible Consumption and Production), and 13 (Climate Action)** while improving productivity, input-use efficiency, and access to digital advisory services for smallholder farmers. To successfully integrate this technology, consider the following key actions :

- Establish partnerships with AfricaRice and national partners to localize and deploy the application.
- Invest in digital infrastructure and strengthen the capacity of youth agripreneurs, extension agents, and lead farmers to provide personalized advisory services.
- Link digital recommendations with timely access to agricultural inputs and promote adoption through demonstrations, radio, SMS, and other digital communication channels.
- Monitor technology adoption, advisory service coverage, input-use efficiency, productivity improvements, and programme outcomes.

0.6—1.8 ton per hectar
Average grain yield

IP
Open source / open access

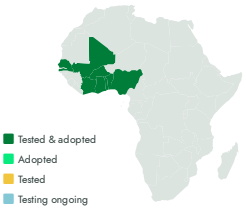
Technology from
ProPAS

Commodities
Rice

Sustainable Development Goals

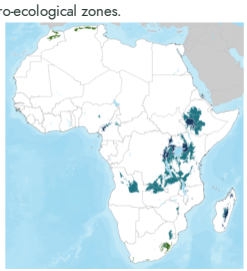
Categories
Production, Digital applications, Advisory and information service

Tested/adopted in



Where it can be used

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



Target groups
Farmers