

Growing More with Less: How TAAT is Driving Climate-Resilient Rice Production in Benin

As climate change threatens agricultural productivity and food security across Africa, the African Development Bank's Technologies for African Agricultural Transformation (TAAT) programme is helping rice farmers in Benin adopt regenerative agriculture practices that increase yields, reduce costs, and lower greenhouse gas emissions.

Through the project «Improving Rice Productivity by Decarbonising

Cultivation for 12,000 Hectares of Irrigated Paddy Fields in Benin,» implemented with the Sasakawa Africa Association (SAA), CGIAR Sustainable Farming Programme, and national partners, farmers are embracing climate-smart technologies that are transforming rice production.

These innovations reduce methane emissions, improve water and fertilizer efficiency, restore soil health, and increase farm profitability.

Building Resilient Food Systems

The project is demonstrating that rice farmers can produce more food while using fewer resources and reducing their environmental footprint. Through farmer training, field demonstrations, and cooperative en-

agement, TAAT is accelerating the adoption of sustainable rice production practices across Benin.

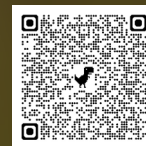
The TAAT Difference

By combining improved seed varieties, regenerative agriculture, precision farming, and farmer-centred extension services, TAAT is helping Benin build a more productive, profitable, and climate-resilient rice sector.

TAAT Impact: 12,000 hectares targeted, yields increased from 2 to 7 tonnes per hectare, production costs reduced, and hundreds of farmers were empowered to lead the transition toward sustainable rice production in Benin.

Contact: Email: taat-africa@cgiar.org

Scan here
for more





Growing More with Less: How TAAT is Driving Climate-Resilient Rice Production in Benin

Achievements at a Glance

- **12,000 Hectares Targeted** for climate-smart and decarbonised rice production
- **268 Rice Farmers Trained** during the Mega Field Day
- **46 Farmer Cooperatives Represented**
- **Up to 250% Yield Increase** from 2 t/ha under traditional practices to 4–7 t/ha using TAAT technologies
- **2 Climate-Resilient Rice Varieties**

Promoted

Orylux 6 and Faro 67

- **100-Day Production Cycle** from nursery establishment to harvest
 - **16% Reduction in Production Costs** cost-to-sales ratio improved from 0.85 to 0.71
 - **80% Reduction in Harvest Transport Costs** from 30,000 FCFA to 6,000 FCFA per tonne
- Climate-Smart Technologies Delivering Results
Farmers adopted a package of regenera-

tive agriculture technologies, including:

- **Alternate Wetting and Drying (AWD) irrigation**
- **Urea Deep Placement (UDP)**
- **Biochar for soil health improvement**
- **Precision transplanting and Good Agronomic Practices (GAP)**
- **Digital field monitoring using e-Ka-kashi smart sensors**

These innovations reduce methane emissions, improve water and fertiliser efficiency, restore soil health, and increase farm profitability.