



## Foliar micronutrient addition for healthier rice

Targeted nutrients for stronger crops and richer grain

Foliar micronutrient addition involves spraying liquid fertilizers onto rice leaves and stems. This ensures quick nutrient absorption, improving yields and grain quality with smaller quantities than soil application. Farmers apply the solution at key growth stages. This method boosts crop resilience and productivity, especially in nutrient-deficient soils.





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Technology from

ProPAS

Commodities

Rice

Sustainable Development Goals





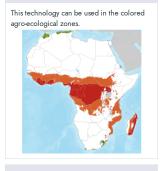




Tested Testina ona oina

Where it can be used





Target groups Farmers

This technology is **TAAT1 validated**.

8.8

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

Gender assessment 4



Climate impact

## 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 environmental stress.

## **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

**Fertilizers** 



7-30 %

Yield increased

**40** USD

30-45 USD

Q<sub>IP</sub>

Protective kits per person

Knapsack sprayers with a tank of 20

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