Foliar micronutrient addition for healthier rice Africa Rice Targeted nutrients for stronger crops and richer grain Africa Rice Center Foliar micronutrient addition involves spraying liquid fertilizers onto rice leaves Sali Atanga Ndindeng and stems. This ensures quick nutrient absorption, improving yields and grain quality with smaller quantities than soil application. Farmers apply the solution at Technology from key growth stages. This method boosts crop resilience and productivity, ProPAS especially in nutrient-deficient soils. Commodities 8.8 This technology is **TAAT1 validated** Rice (Cost: \$\$\$) **41.1** USD (ROI: \$\$\$)7-30 % Sustainable Development Goals Yield increased Fertilizers 30-45 USD Οιρ 40 USD Knapsack sprayers with a tank of 20 Protective kits per person Open source / open access liter **1** Problem Solution Categories Micronutrient Deficiencies and Low Yields: Targeted Micronutrient Application and Rice crops often lack essential micronutrients like Efficient Uptake: Spraying essential Production, Inputs, Fertilizer zinc, copper, and boron, leading to low yields micronutrients like zinc, copper, and boron Tested/adopted in and poor grain nutrition. directly onto leaves addresses deficiencies, • Soil Nutrient Depletion: Soils in Sub-Saharan enhances nutrient availability, and maximizes Africa are increasingly depleted of vital nutrients, absorption efficiency. • Increased Yields and Grain Quality: Improved impacting crop health. Inefficient Nutrient Uptake and Crop nutrient uptake results in higher rice yields and Vulnerability: Traditional soil-based fertilizers better nutritional quality. Tested & ador Ad opted result in inefficient nutrient absorption, making Soil Health Improvement and Crop Tested Testina ona oina crops more susceptible to diseases and Resilience: Supplementing with foliar environmental stresses micronutrients counteracts soil nutrient depletion Where it can be used and strengthens crops against diseases and This technology can be used in the colored environmental stress. agro-ecological zones Key points to design your business plan This technology addresses the challenge of low micronutrient content in rice, improving both grain yield and nutritional value. • The cost structure includes various elements such as the price per kilogram of microelements in fertilizers, protective kits, knapsack sprayers, and renting tractor-mountable sprayers. • Training is crucial for successful implementation, and collaboration with agro dealers is essential. Target groups • The potential profit can be estimated based on positive outcomes observed in Brazil and Malaysia. Farmers Gender assessment 4 Climate impact **7** Foliar micronutrient addition for healthier rice Enquiries e-catalogs@taat.africa https://taat.africa/iwu

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