

IITA collaborates with global leaders to transform African agriculture

The International Institute of Tropical Agriculture (IITA) has officially launched a groundbreaking initiative, "Making effective bio-inputs work for smallholder farmers in sub-Saharan Africa" (BioSSA), funded by the Bill & Melinda Gates Foundation. This project marks the first-ever strategic collaboration in Africa, aiming to revolutionize agriculture by providing innovative bio-input solutions to empower smallholder farmers across the region.



Image source: Gallo/Getty

Bernard Vanlauwe, deputy director general, research for development, expressed the project's significance, stating, "BioSSA represents a critical step towards empowering African smallholder farmers with innovative tools to enhance their productivity and resilience in the face of climate change. By harnessing the power of bio-inputs, we can unlock the potential of African agriculture, empower millions of farmers, boost food production, and build a more resilient future for the continent."

The initial phase of the project will focus on gathering evidence to assess the effectiveness of candidate microbial strains. Subsequent stages will strategically shift towards identifying deployment pathways, ultimately leading to the development of innovative bio-input products.

BioSSA targets two crucial crop categories: grain legumes (soybean, cowpea, and Phaseolus bean) and roots, tubers, and bananas (cassava, yam, and banana/plantain). These crops are vital for food security and income generation among millions of smallholder farmers in Africa. Leveraging IITA's expertise and established breeding programs for these crops, BioSSA is poised for success in agricultural transformation.

Adressing challenges

African smallholder farmers grapple with challenges such as degraded land, unpredictable weather patterns, and resource constraints, leading to low-input agriculture with limited fertiliser use and poor yields. BioSSA aims to address this by harnessing the potential of bio-inputs—microbial-based products that improve soil health, increase nutrient availability,

