Researchers
Shilpa Aggarwal
India School of Business
Susan Godlonton
Williams College
Ammar Kawash
World Food Programme, Rwanda
Jonathan Robinson
University of California, Santa Cruz
Alan Spearot
University of California, Santa Cruz
Guanghong Xu
University of California, Santa Cruz

Staff
Aline Munyeshuli Uwimanzi
Senior Research Associate
Ave Maria Therese
Field Manager
Elie Mwemanani
Field Manager

Timeline
2020-2024

Study Status
In Progress

Study Type
Randomized Evaluation

Sample Size
180 maize cooperatives

Project Brief

Connecting Smallholder Farmers to Agricultural Value Chains in Rwanda
In collaboration with the World Food Programme and the Rwandan Ministry of Agriculture, researchers are evaluating the impact of connecting maize cooperatives with commercial food processors on farmers’ output of high-quality maize, sales, and investment in productive inputs.

One way that farmers can improve their income and livelihoods is to transition from subsistence farming to market-driven commercial agriculture in which output is sold into value chains. However, their production often falls short of required quality standards. In Rwanda, several factors — such as the timing of the rainy season — prevents farmers from properly drying maize after harvest, leading to contamination and reduced maize quality. Many premium food processors thus tend to reject a large share of what farmers bring them, effectively shutting farmers out of value chains and discouraging them from investing in quality inputs.

To improve and incentivize quality maize production, the World Food Programme’s Farm to Market Alliance (FtMA) connects farming cooperatives in Rwanda to commercial food processors. These processors buy farmers’ entire output immediately after harvest and have industrial facilities that can dry maize quickly, eliminating the need for farmers to dry maize
and reducing the likelihood of post-harvest contamination. Through FtMA, farmers can receive higher and guaranteed prices for their maize production, leading to increased revenue and profits. Consequently, farmers may expand their land holdings and invest in productivity-enhancing inputs.

Researchers partnered with the Rwandan Ministry of Agriculture and the World Food Programme to conduct a randomized evaluation of the FtMA program. They are measuring the impact of FtMA on farmers’ output of high-quality maize, sales, and input investments. World Food Programme representatives visited 90 cooperatives to explain the FtMA program and encouraged them to secure a buyer contract with a food processor before the next harvest. Another 90 cooperatives served as a comparison group without visits from World Food Programme representatives.

Results will be available later in 2023.

Sources


Implementing Partners

World Food Programme

Rwandan Ministry of Agriculture and Animal Resources

Funding Partners

USAID

J-PAL