

# **Estimating the Return on Investment**

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### 1.Introduction

The Africa RISING program promoted more than 30 different farm technologies to 400,000 farming households, over a ten-year period. Technologies were trialed in "research kebeles" and then promoted by extension services into "scaling kebeles".

### 4. Results



#### 2. Objective

We estimated the additional value of produce directly received by farmers due to the promoted technologies. This information demonstrates the viability of the research-for-development model and may influence decisions in development programming. No indirect benefits or any future benefits were included.

## 3. Methods

The degree of use of promoted technologies was established using household surveys in 2018 and 2022, and in reference to program records. The productivity impact of each technology was established from survey data cross-checked with experimental data where available. The value of production gains was converted to USD\$ in purchasing power parity (PPP) taking 2021 as the reference year. Mean increases in farm income were then extrapolated to the project and scaling kebeles to calculate the total additional income generated by use of the promoted technologies. The estimated additional income in farmers pockets was USD\$ 145.5 million PPP over six years (2016-2021). The cost of the project during this time was USD\$ 19 million, resulting in a 7:1 benefit to cost ratio. While a higher proportion of households in the research kebeles sites used the promoted technologies, work in the scaling kebeles reached more households. Out of the innovations promoted, those associated with bread wheat and enhanced soil nutrient inputs contributed to the largest increases in farm income.

#### 5. Conclusion

Through the promotion of Sustainable Intensification technologies (and knowledge exchange models), AfricaRISING generated an additional annual income of around USD\$ 1000 per household in the research kebeles and USD\$ 600 per household scaling kebeles. This

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equated to a 10 to 15% increase in total annual household

#### income.

