Food and Business Applied Research Fund

Development of potato seed quality based innovations for small scale farmers in the three provinces a surrounding Bujumbura town in Burundi

1. Consortium members:

- **Pierre Claver NAHAYO**; project coordinator, *Confédération des Associations des producteurs Agricoles pour le Développement (CAPAD).*
- **Astere BARARYENYA, Pierre NIYONZIMA & Ernest VYIZIGIRO**, Researchers, Institut des Sciences Agronomiques du Burundi (ISABU).
- Anton HAVERKORT, Researcher, Wageningen University and Research Center (WUR).
- **Jean Pierre SINDIHEBURA**, training program in charge, Innovative, Technology for Rural Entrepreneurship Center (*ITEC*).

2. Main innovation / aim and objective

Enhancing on-farm potato yield using innovative crop husbandry in Burundi

Expected impact (including target group):

- New technologies are up scaled and adopted by farmers.
- Famers will have access to potato quality seeds.
- Potato yield increased.

3. Impact activities

Demonstration trials on small plot technique, positive seed selection, effect of vegetative cycle, chemical control, fertilization techniques, introduced variety, degenerated seed on yield were conducted in farmer's field in Mugongomanga, Musigati and Bukinanyana Communes during the first season of 2014.





Figure 1. Field experiments at Mugongomanga

The treatments were comparing improved practices with farmers practicises. Knowing growth stage for harvesting, best variety to farmer's need and how good is the quality have been tested under farmer circumstances. Each trial were sown.

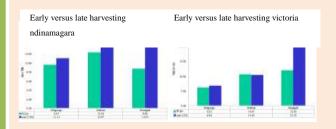


Figure 2. seed plot technique and seeds harvested.

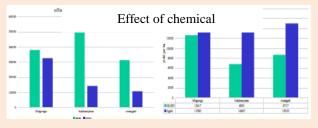
- 5. Opportunities: subsided fertilizer national program.
- 6. Challengers: uncertain security situation in capital city.

4. Results

In the first season, treatments showed differences in yield effect, respectively with early harvesting compared to late one, as well as Ndinamagara variety and Victoria, effect of chemical treatment and without use of chemicals.

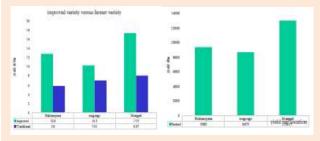


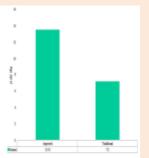
These results shows that there is a positive effect of the use of improved technique. The yield increased in each treatment compared to farmers practices.



Chemical application

No chemical application





The figure shows a high difference between the use of improved seed versus of farmer's seed











