# Increasing capacity of smallholder farmers to produce and market indigenous leafy green vegetables

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### INTRODUCTION

"Evidence does not support the assumption that "markets" will organise themselves to set in place the institutional arrangements that would support the achievement of the Millennium Goals. Overall, the institutional aspects of innovation systems have not been well appreciated in Farmer Field School (FFS) programmes, nor the effects studied from this perspective. There is scope for further exploration of the role of FFSs from an institutional perspective, i.e. their contribution to innovation systems that meet the multiple goals desired." (A Global Survey and Review of Farmer Field School Experiences)

### **STUDY AIMS -**

What special considerations do we need for horticulture to fit Into the national goal of commercializing smallholders?

- 1. Develop strategies to improve horticulture market links to non-commercial farmers
- 2. Identify key factors to adoption or non adoption of horticulture as a household enterprise
- 3. Propose interaction effects FFS / other articipatory extension can interact with market development programs

## METHODS

Pilot Interventions:
Farmer Field Schools - FFS
with and without market platforms
Participatory Market Chain Approach - PMCA

FFS: A participatory approach to extension in which farmers come together in groups to adapt better farming methods through discovery learning and sharing local and technical knowledge.

PMCA: A platform for all stakeholders in a market chain to develop innovations that are profitable for farmers as well as other participants in the market.

# **CROPS**

### Indigenous Leafy Greens (ILVs)

- Solanum aethiopicum shum: "Nakati"
- 2. Gyandropsis gynandra "Jobyo"
- 3. Amaranthus gracecizane "Bbugga"

#### Why ILVs?

- 1. Fast maturing
- 2. Relatively low production costs (compared to other vegetables)
- 3. Indigenous knowledge
- 4. High market potential

# Kampala Main Wet Markets Kampala Main Wet Markets Cther Urban Wet Markets Cther Urban Wet Markets Cther Urban Wet Markets Cutside Kampala Day-Traders Resiaurants/Hotels & Institutions Resiaurants/Hotels & Other Retailers Vendors' Association (financial services) Market Services (storage, cleaning, etc) Transporters

Figure 2: Market Chain Map

### INITIAL RESULTS

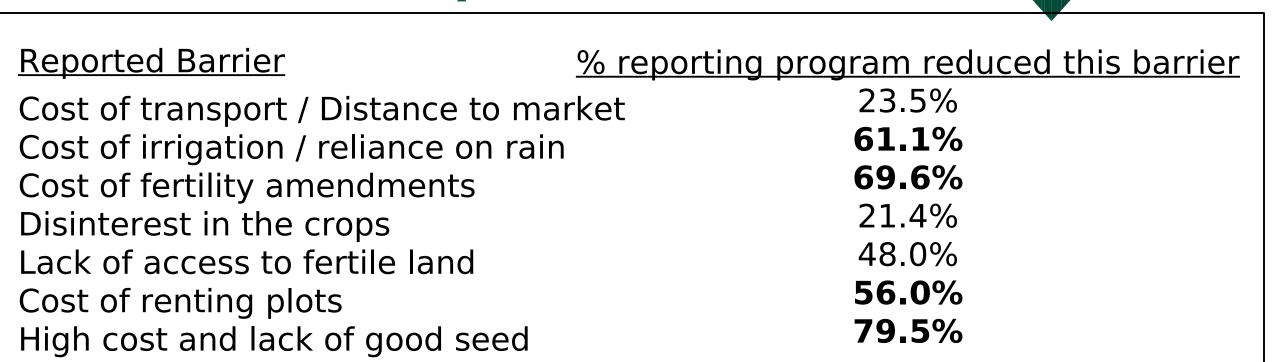
Many barriers outside scope of traditional extension (policy/structural barriers)

Cost of transport / Distance to market
Cost of irrigation / reliance on rain
Cost of fertility amendments
Disinterest in the crops
Lack of access to fertile land
Cost of renting plots
High cost and lack of good seed

Represents **over 60%** of the perceived barriers to growing and selling leafy greens

(out of 100% of barriers reported by FFS participants)

### FFS+/-PMCA responses to barriers







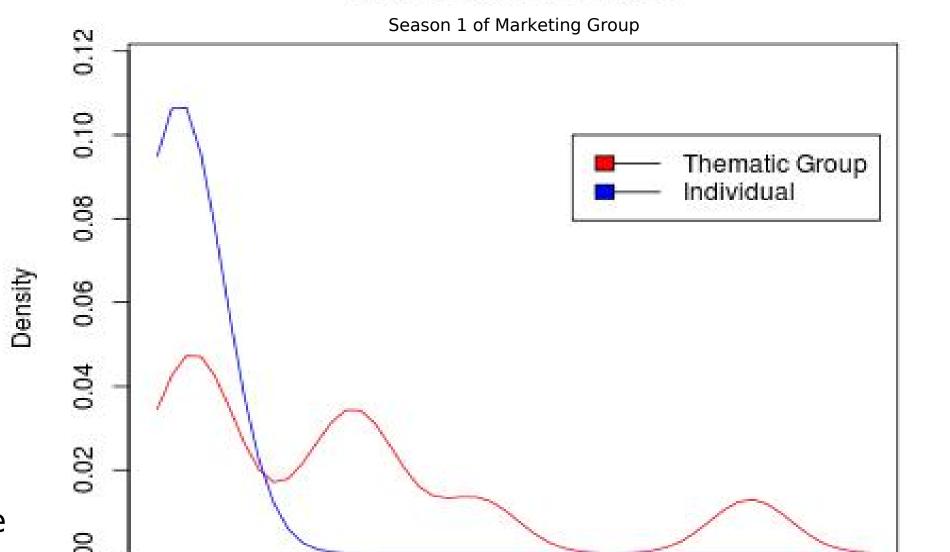
Kilos Sold Per Farmer

# INITIAL RESULTS

### PMCA Innovations

Seed Marketing Group (thematic group)

- Market for farmer-to-farmer sales rarely exceeds 10 kg
- Contracts developed with international seed company
- Farmer-owned seed marketing enterprise registered
- Over 500 kg of sales per season expected
- Revenue per acre comparable to fresh leaf production
- Fresh: \$1500-\$2500 gross revenue possible
- Seed: \$1600-\$2400 gross revenue possible



# DISCUSSION AND CONCLUSIONS

- FFS/PMCA helps participants reduce barriers to production (via increased seed access, soil fertility, renting appropriate land)
- PMCA innovations open up new marketing channels outside the restraints of traditional markets
- No strong differences so far in marketing success in traditional markets between participants of FFS and those in FFS+PMCA
- How can content of FFS and PMCA be modified to promote adoption of vegetable production as a business?



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