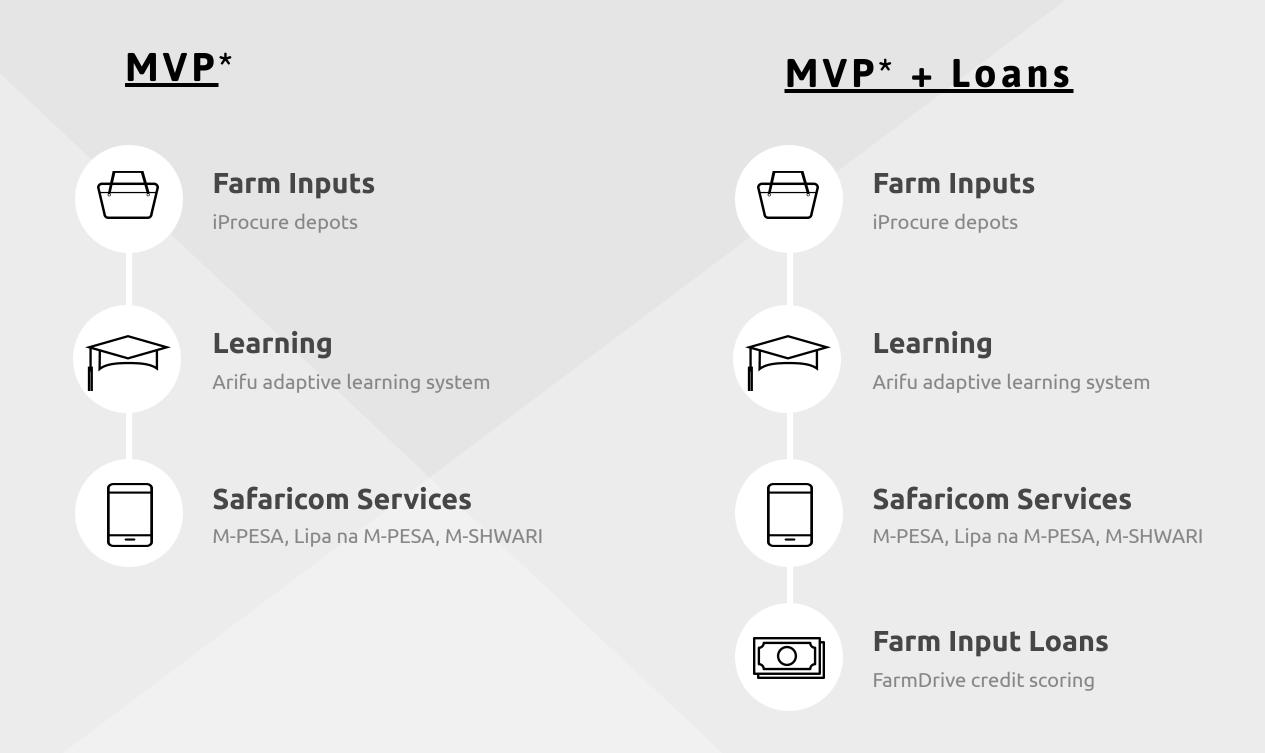


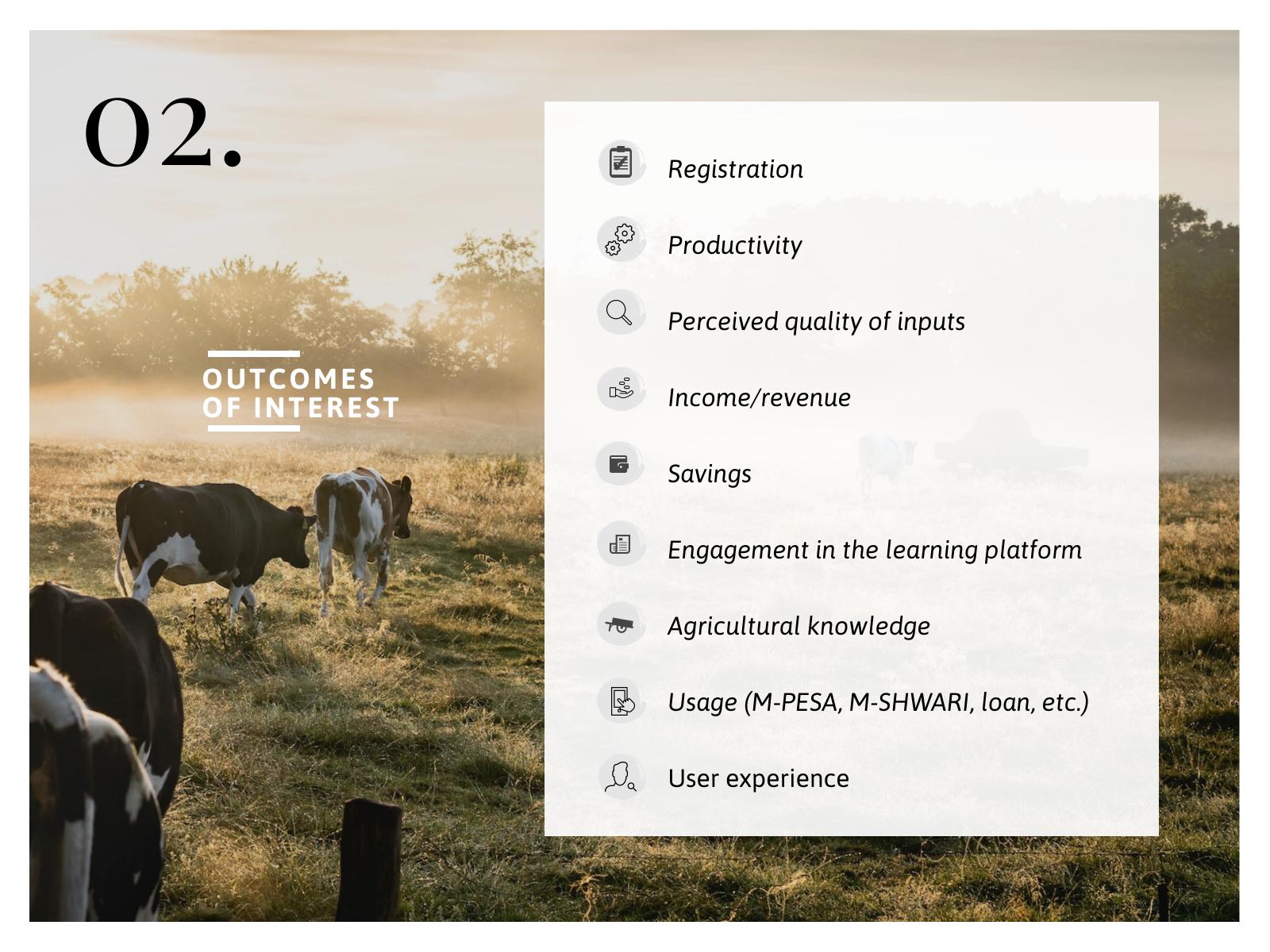
01.

DIGIFARM SOLUTIONS

There are two DigiFarm solutions that are currently being evaluated, defined as:



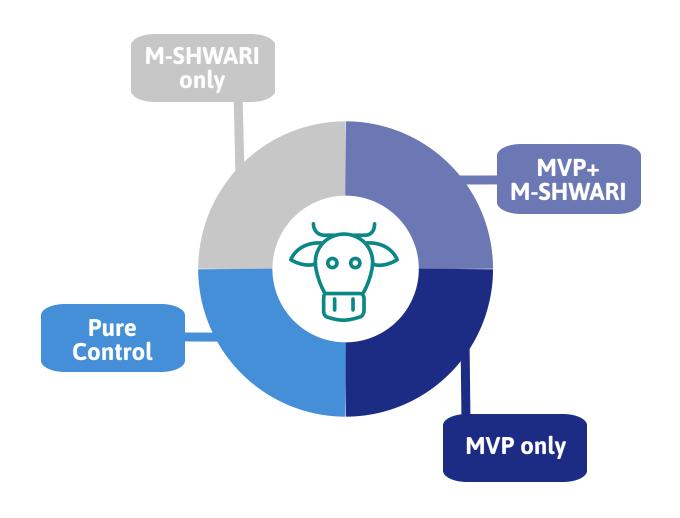


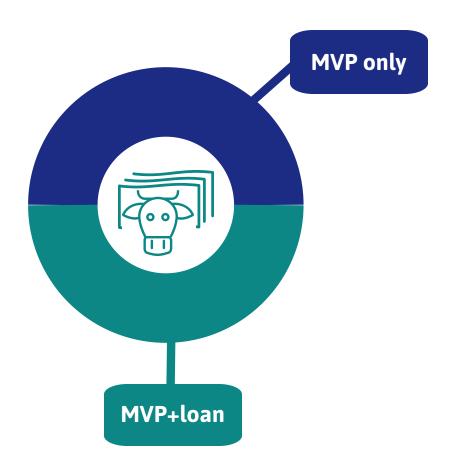


03.

RESEARCH METHODOLOGY

Each **DigiFarm** solution is being evaluated using a **randomized controlled trial** with the following treatment arms:

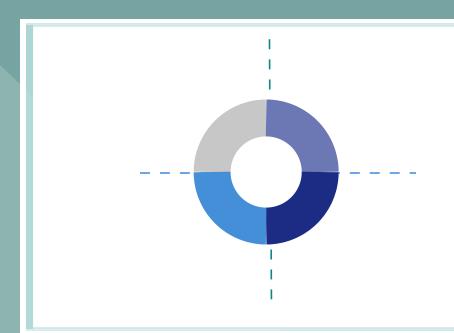








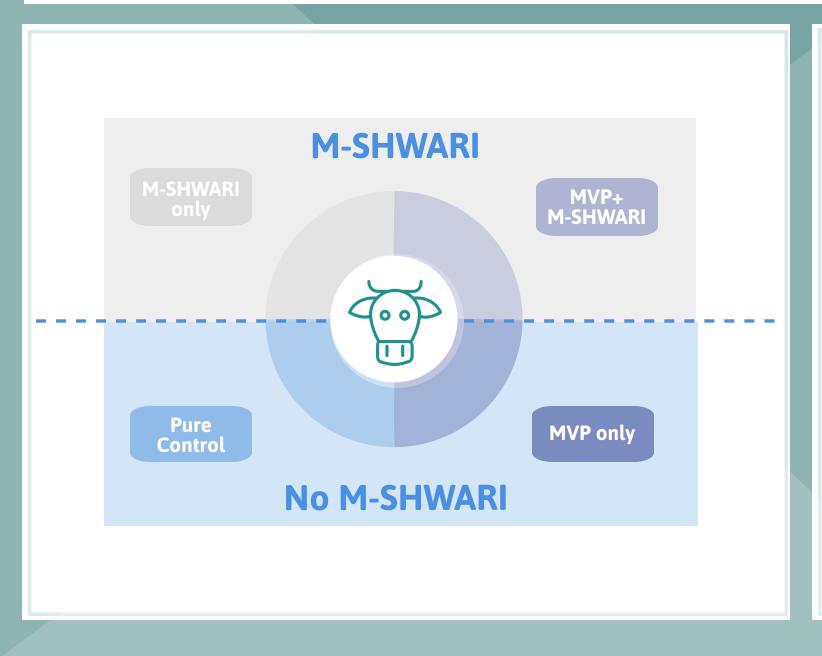
MVP: SAMPLE I

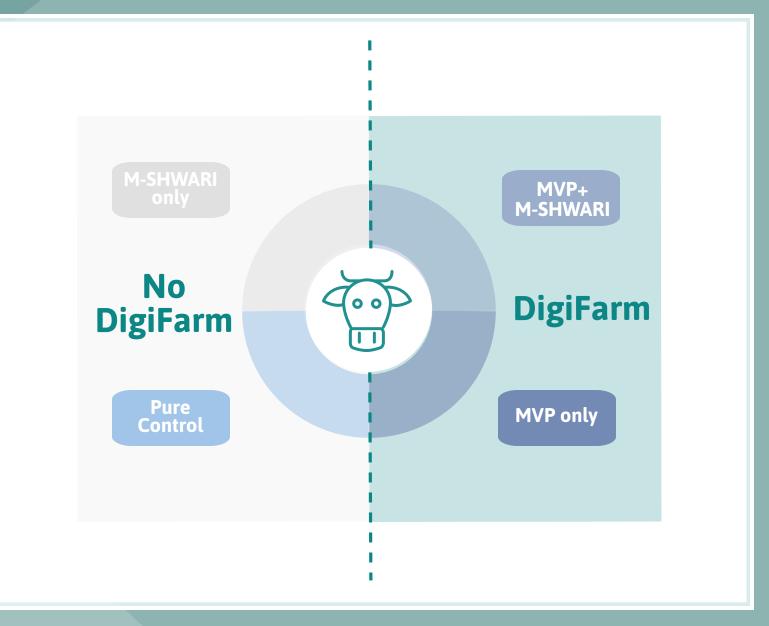


In the MVP (Sample I) study, we can analyze the data by

M-SHWARI vs. No M-SHWARI. We can also analyze the data

by DigiFarm vs. No DigiFarm.





Pre-intervention



6,115 Households



Sample 1

3,152

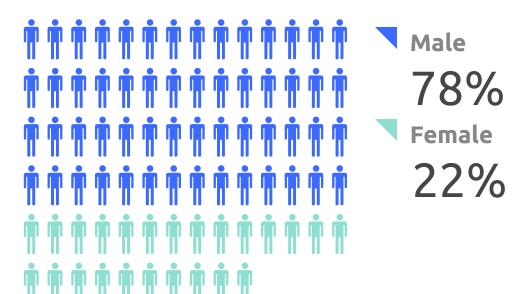


Sample 2

3,003

COMPOSITION BY HOUSEHOLD HEAD

(combined samples)



SAMPLE REGION



Our household
samples are from
the Central

Province of Kenya

Average Household Size

4.4

Average HH Head Age

51 years

Average Farm Size

2.7 acres

SAMPLE REGION



Each dot represents one household

Engineer

Sample I households

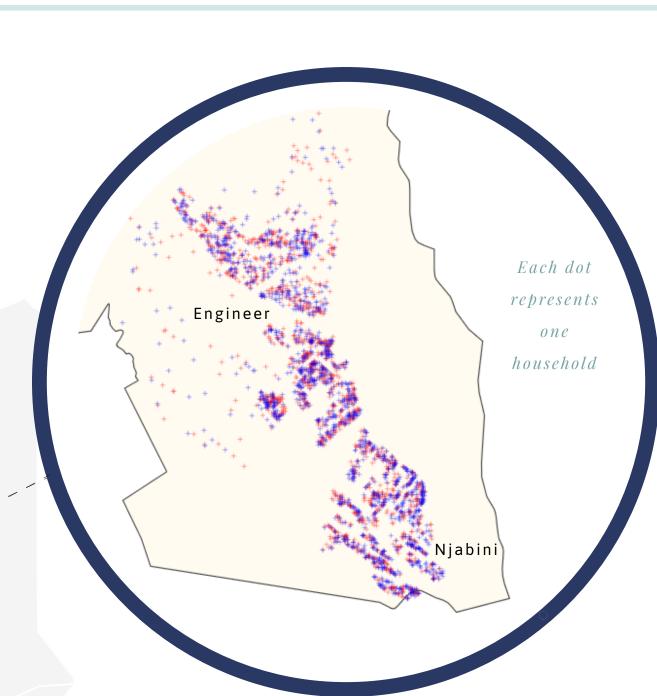
are from Engineer,

while Sample II

households are from

Engineer and

Njabini.

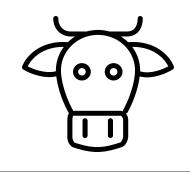






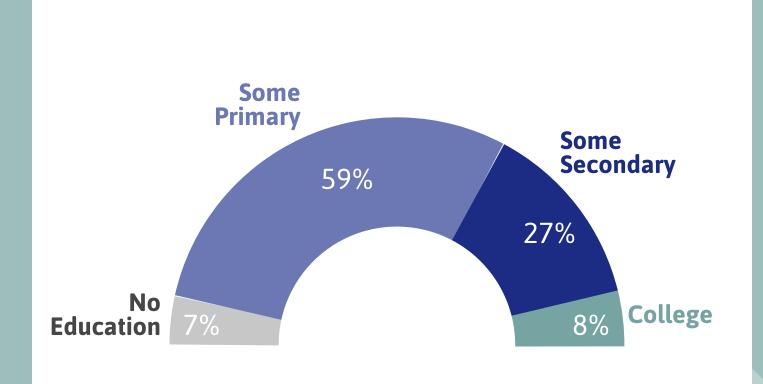
Education

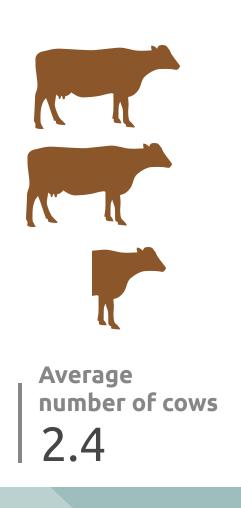
Average years of schooling for household head is 8.2



Dairy

Cow ownership was one of the selection criteria for the study









Livestock

The majority of the houses also own other livestock



Crops

Over 90% of the households grew some crops during the last planting season

Other Livestock Ownership



66%



48%



8%

Types of Crops Grown

Potatoes

89%

Green Peas

69%

Oats

57%

Maize

57%

Cabbage

52%



Crop & Livestock Inputs

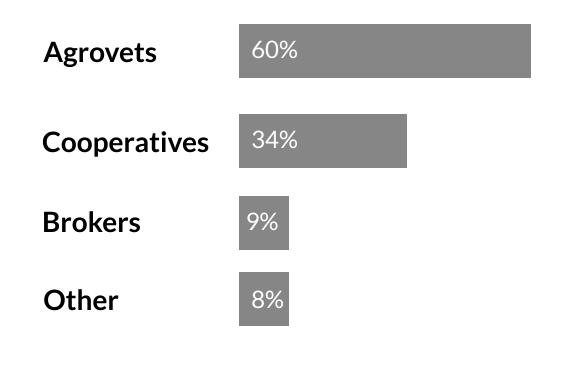
Less than 0.2% of households reported buying inputs from iProcure



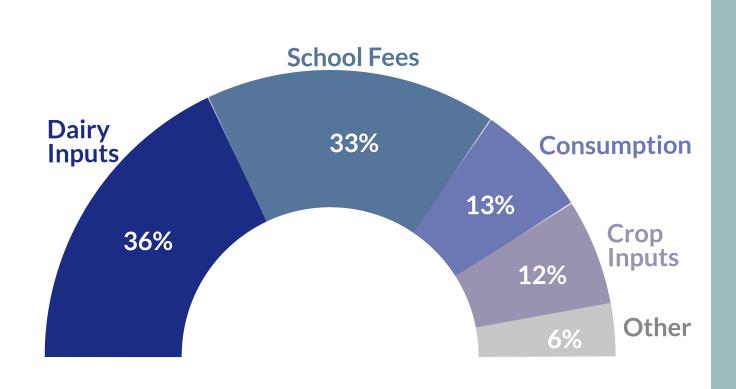
Loans

22% of households reported taking out a loan over last 12 months

Sources of Inputs at Baseline



Loan Purpose at Baseline



Best Practices: Livestock



Rabbies Vaccination Adherence 61% Foot & Mouth Disease Adherence 64% Deworming Adherence

78%

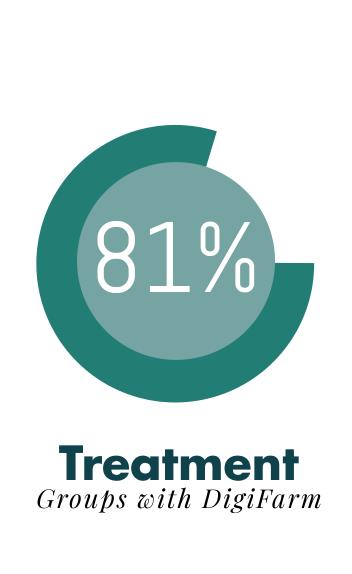
Z	Zero Grazing	
	Knowledge ———————————————————————————————————	
	88%	
	Adherence	
	10%	

05.

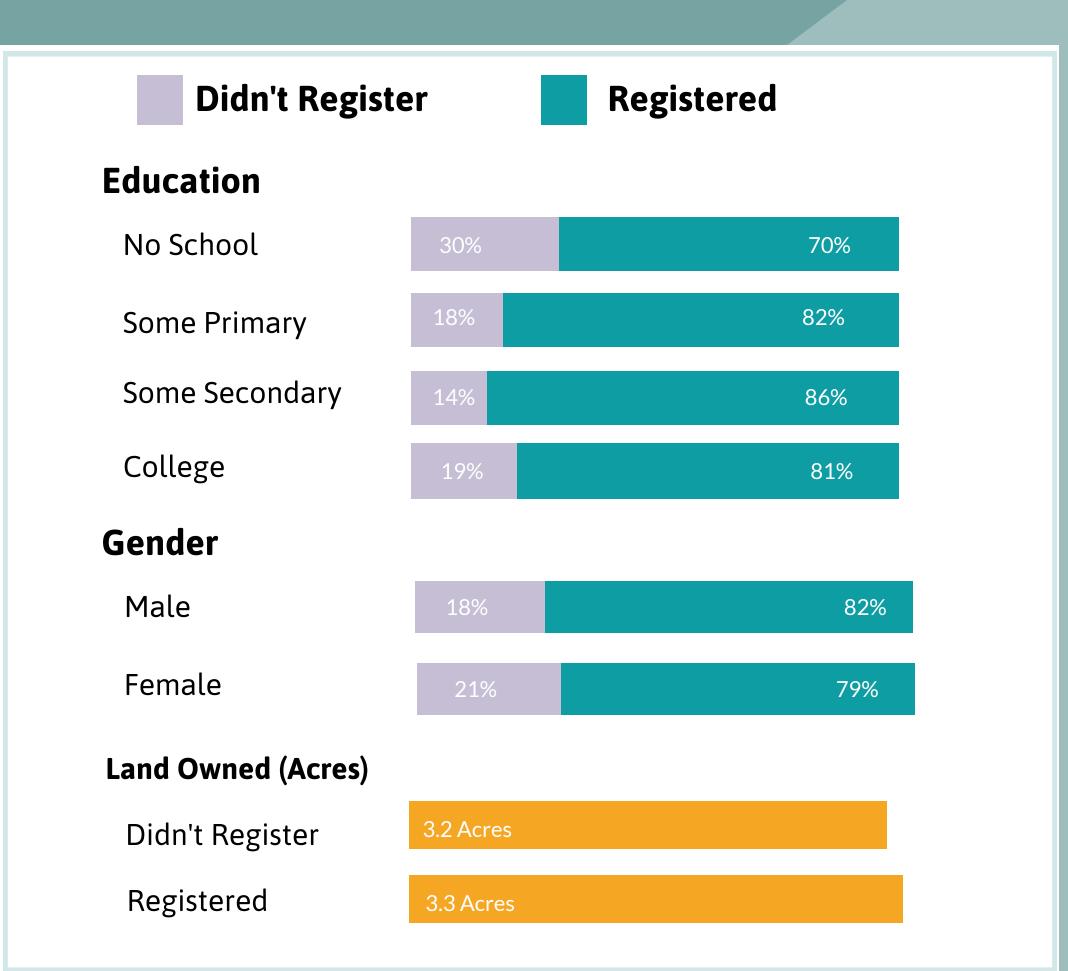
SEGMENTATION ANALYSIS: SAMPLE I

Post-intervention

DigiFarm Registration





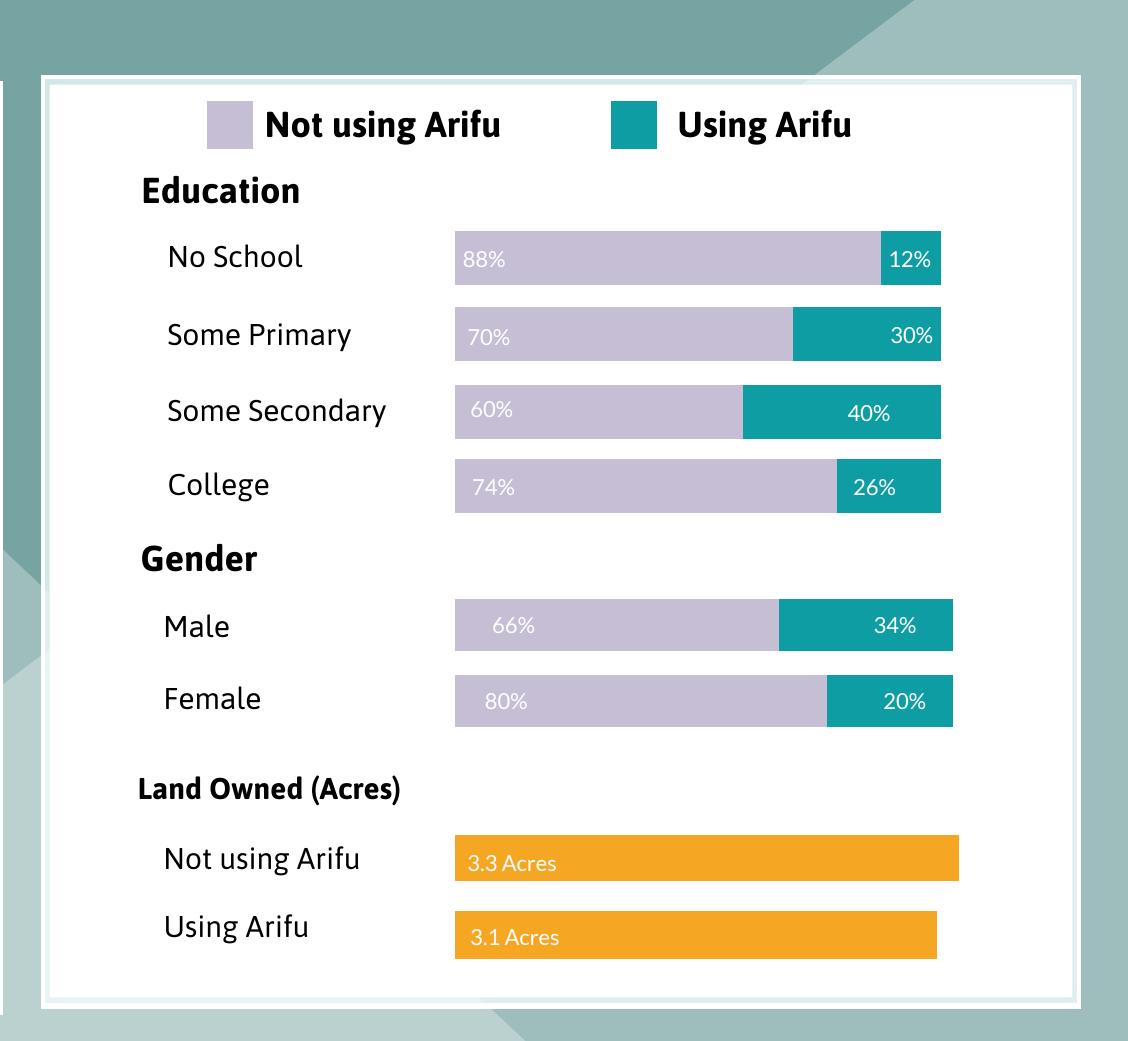


SEGMENTATION ANALYSIS: SAMPLE I

Arifu Usage



31% of households introduced to the MVP used the Arifu learning platform



SEGMENTATION ANALYSIS: SAMPLE II

DigiFarm Loans

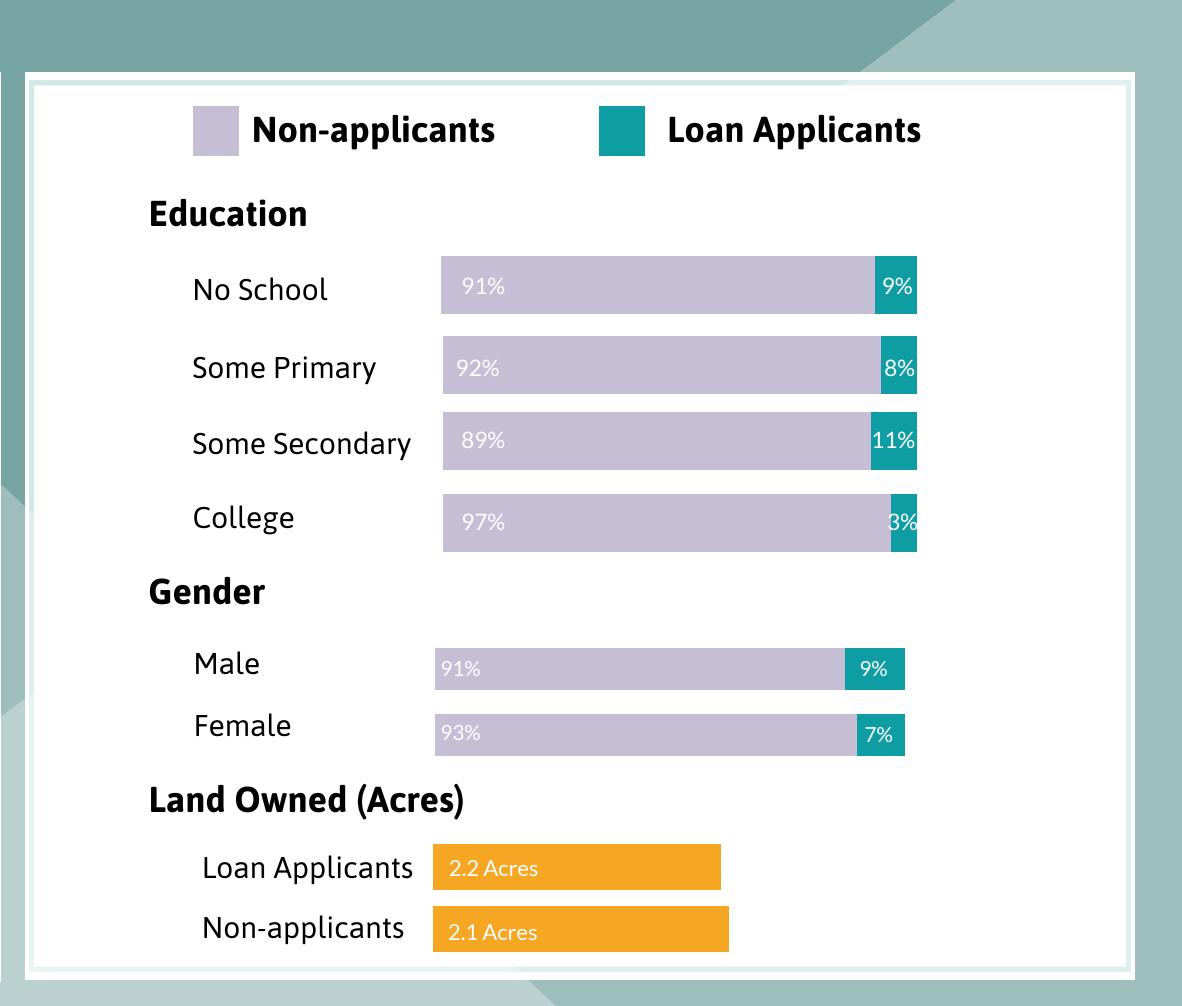
Loans Applied



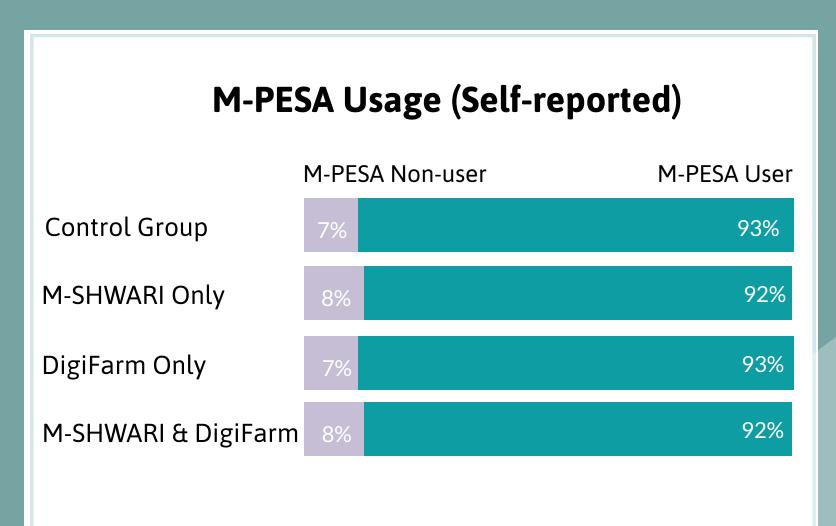
Treatment

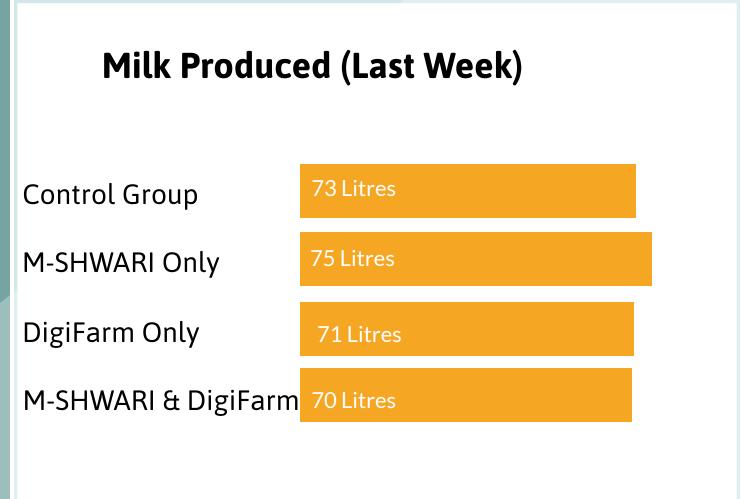
MVP+loans

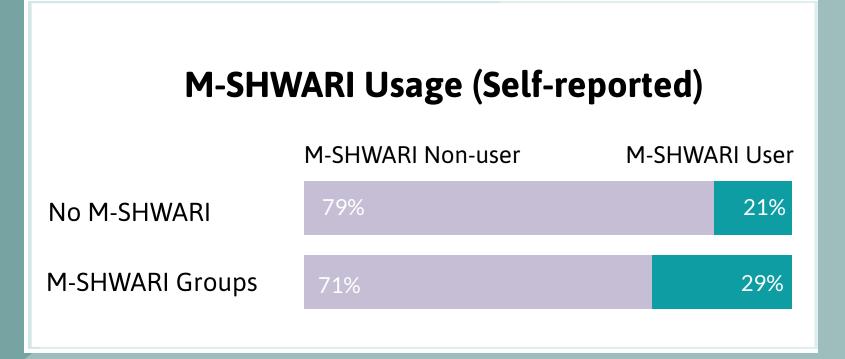
8% of households introduced to the MVP+loans applied for a DigiFarm loan

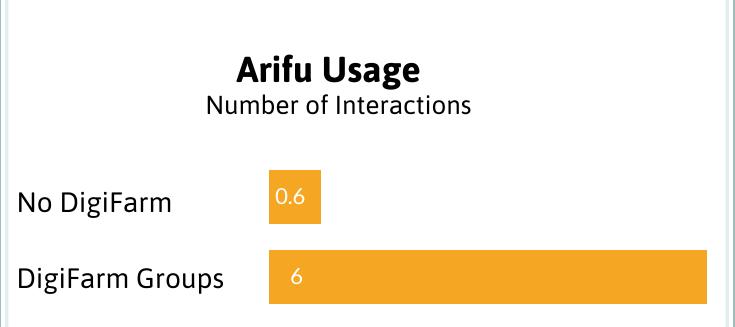


IMPACT EVALUATION: SAMPLE I

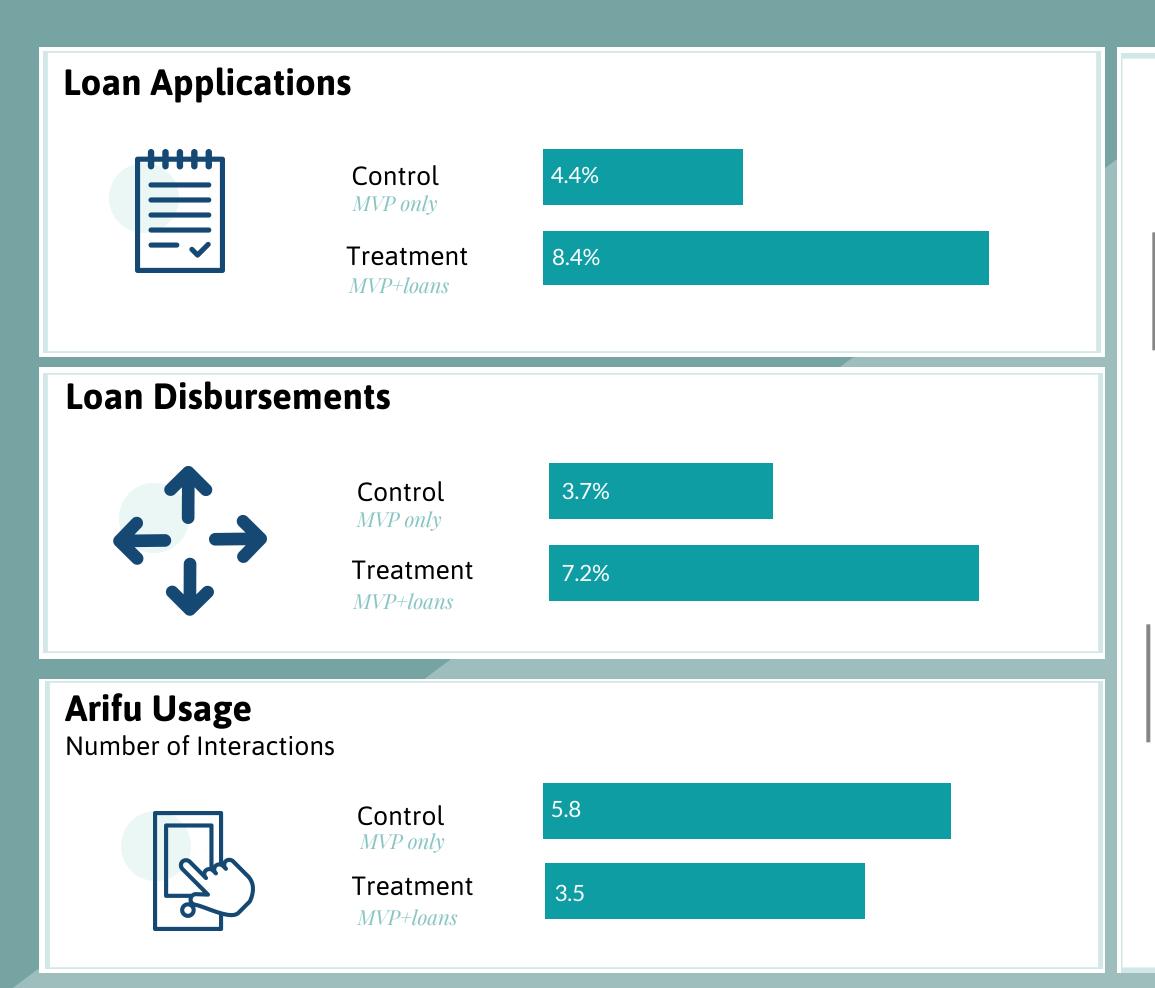








IMPACT EVALUATION: SAMPLE II



Average Loan Amount

1,285

Control

MVP only

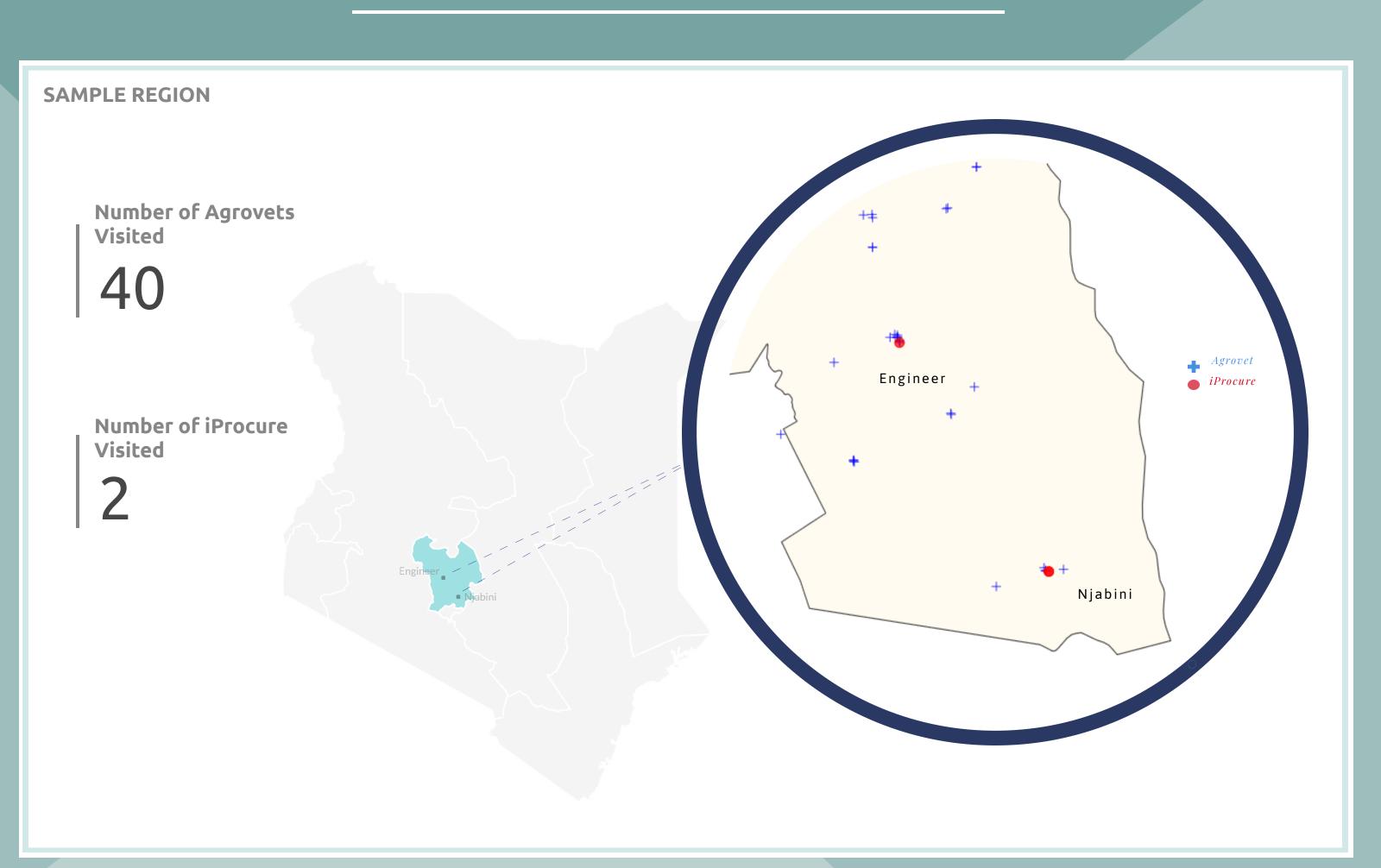
1,023
KSh

Treatment

MVP+loans

08.

AGROVET ANALYSIS



AGROVET ANALYSIS

Average distance to the nearest

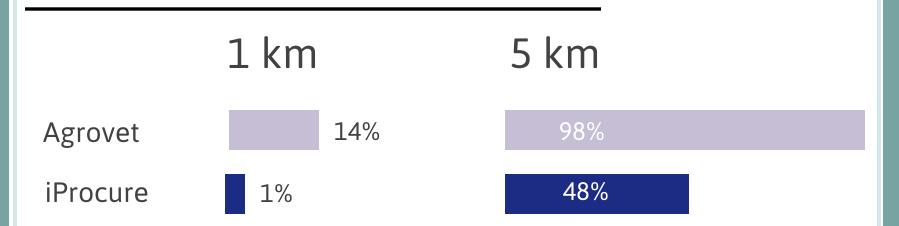
Agrovet

iProcure

2.3_{km}

5.2_{km}

Percentage of sample living within:



Price Comparison Exercise



We visited all the agrovet and iProcure depots in Engineer, Njabini and Kitiri



These depots were visited three times: May 2017, April 2018 & July 2018



Prices of iProcure products were compared with the 5 nearest Agrovets

Farmers' Feedback



iProcure lacks smaller quantities of inputs



iProcure is closed on Sundays which is a market day



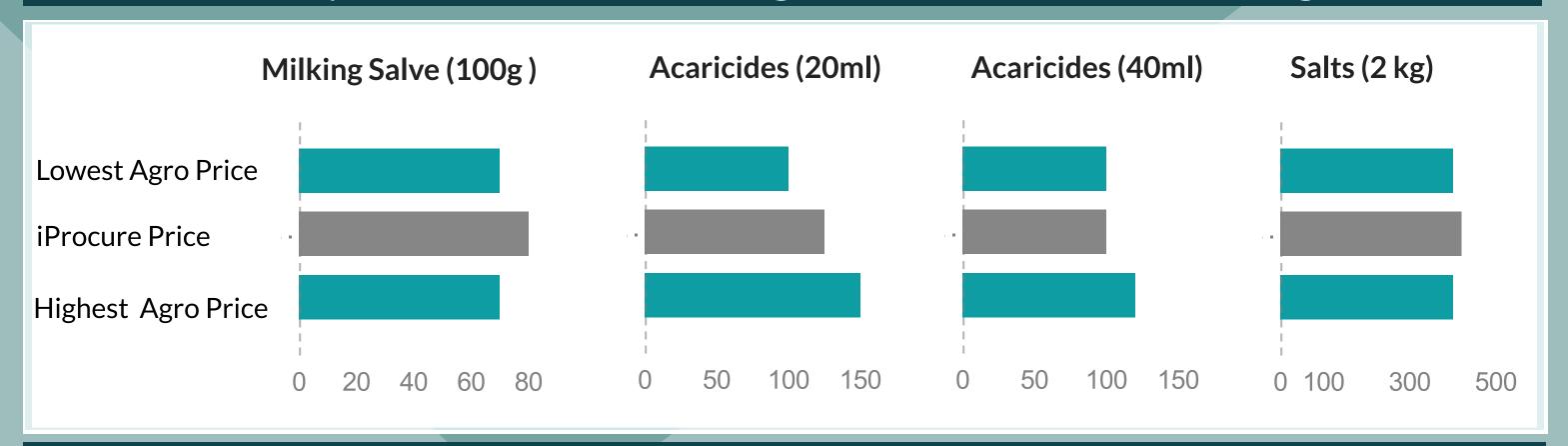
Transportation costs are high



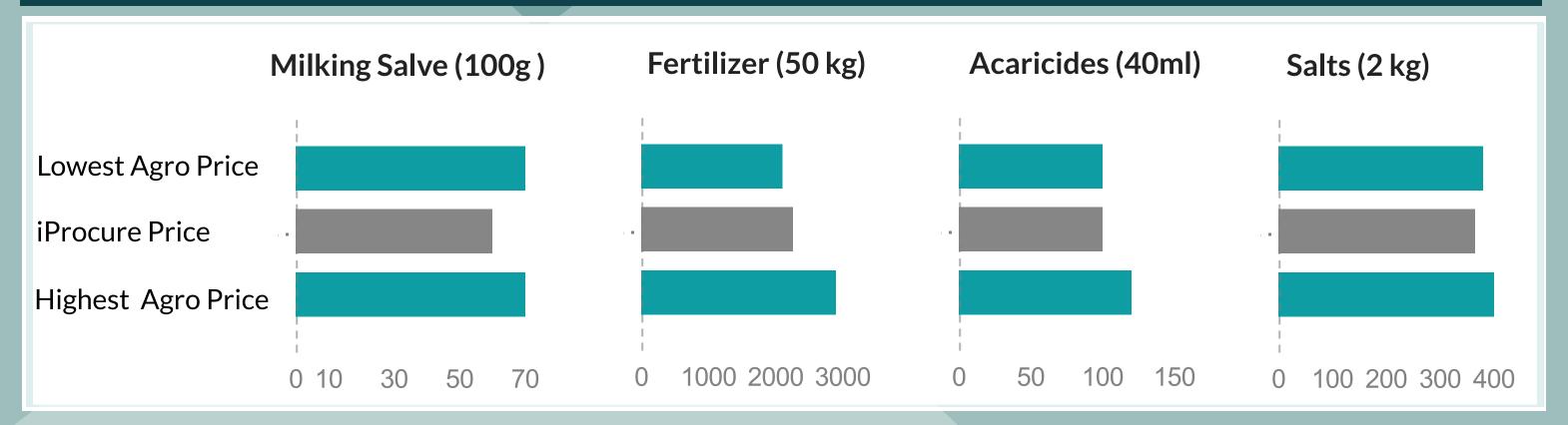
iProcure voucher doesn't work. Farmers are told by depot staff that it's not needed

MAGROVET ANALYSIS

Price Comparison: iProcure Engineer vs Five Nearest Agrovets

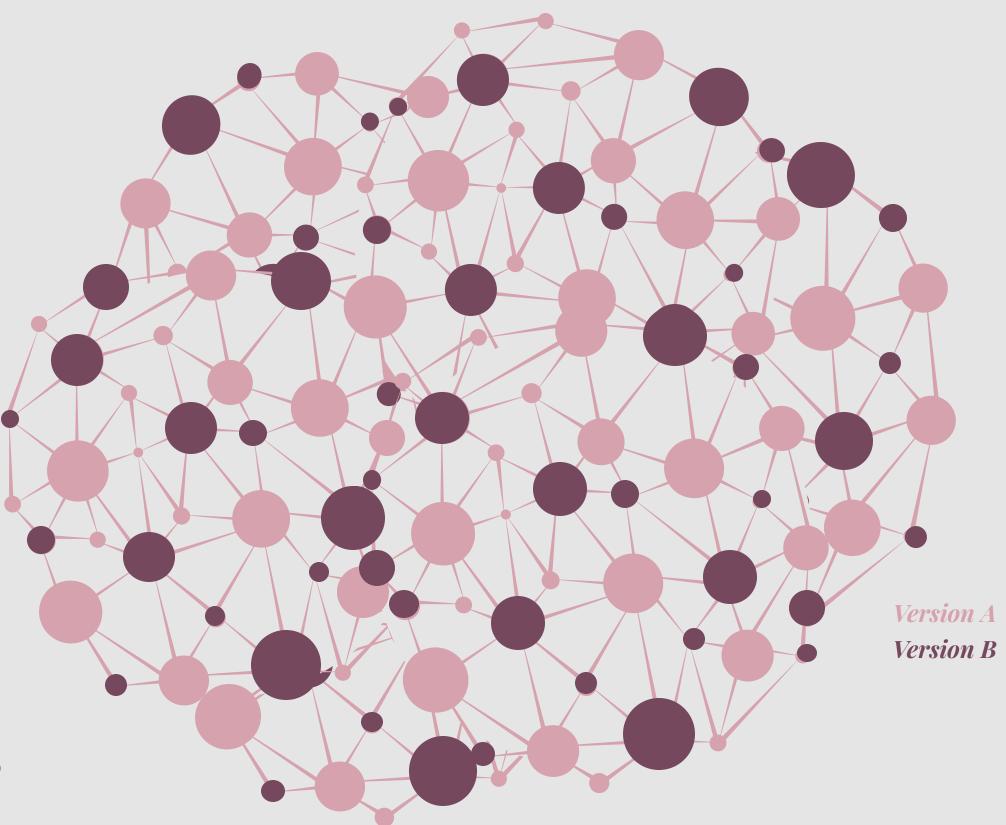


Price Comparison: iProcure Njabini vs Five Nearest Agrovets



We are conducting A/B Testing
with a much larger sample of users
outside of the MVP and
MVP+loans studies.









VS.



Two pilot tests were conducted to determine required sample sizes, which didn't include a control SMS.

Pilot Test Case No. 1 Loans pilot

Pilot Test Case No. 2 Learning pilot

Four tests at scale have been initiated, however, we do not yet have outcome data to report on results.

Test Case No. 1 Register for Farm Drive

Test Case No. 2 Request a loan

Test Case No. 3 Use the learning platform

Test Case No. 4 Use a specific module on the learning platform

This research is funded by: the Bill & Melinda Gates Foundation and Mercy Corps.

BILL&MELINDA GATES foundation



Thank you.





Georgetown University Initiative on Innovation, Development and Evaluation

The Georgetown University Initiative on Innovation, Development and Evaluation conducts empirical field-based research to assess the impact and effectiveness of interventions and policies aimed at empowering individuals in developing countries to improve their lives. Major research themes include governance and accountability, the promotion of agency in the delivery of health, education, and other public services, the role of mobile technology in development, and financial development and integration.