Delivery of Project's Output by

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Presentation Outline

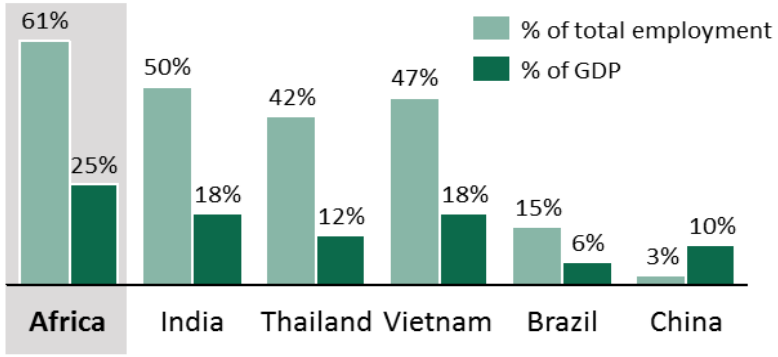
- Context
- Approaches used
- Progress made in 2017
- Going forward/Recommendation

Context

Agriculture remains a major source of income in Africa; however, untapped potential has resulted in persistent poverty and deteriorating food security

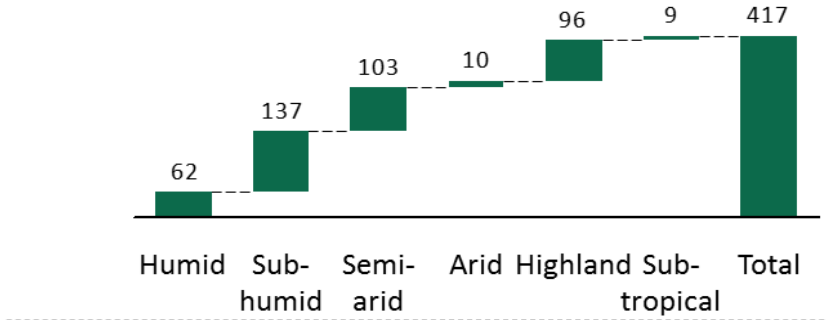
Gap between employment and income...

Agriculture as a share of employment and GDP; % 2014



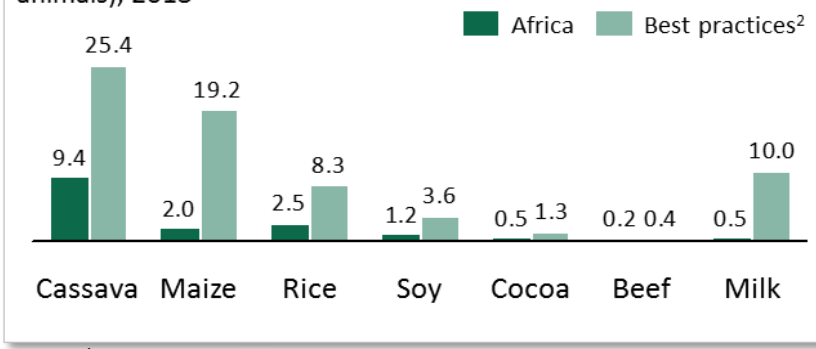
...resulting in widespread poverty.

Millions of Africans living on less than $1.25/day; 2014



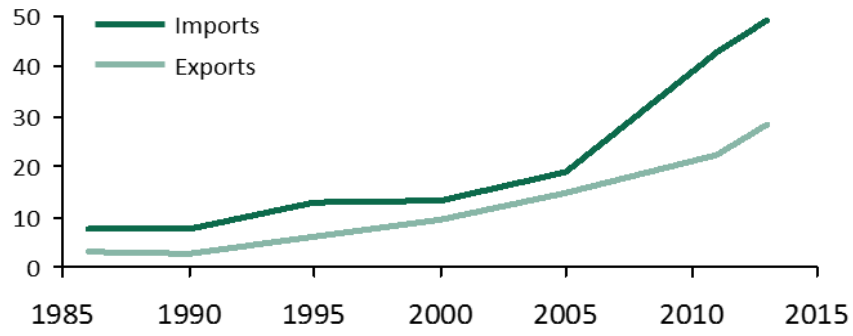
Relatively low productivity...

Average yields across Africa versus best practice[2]; mT/(hectares or animals), 2013



...and rapidly rising imports.

Imports vs exports[3]; billion USD



Cassava Weed Management Project

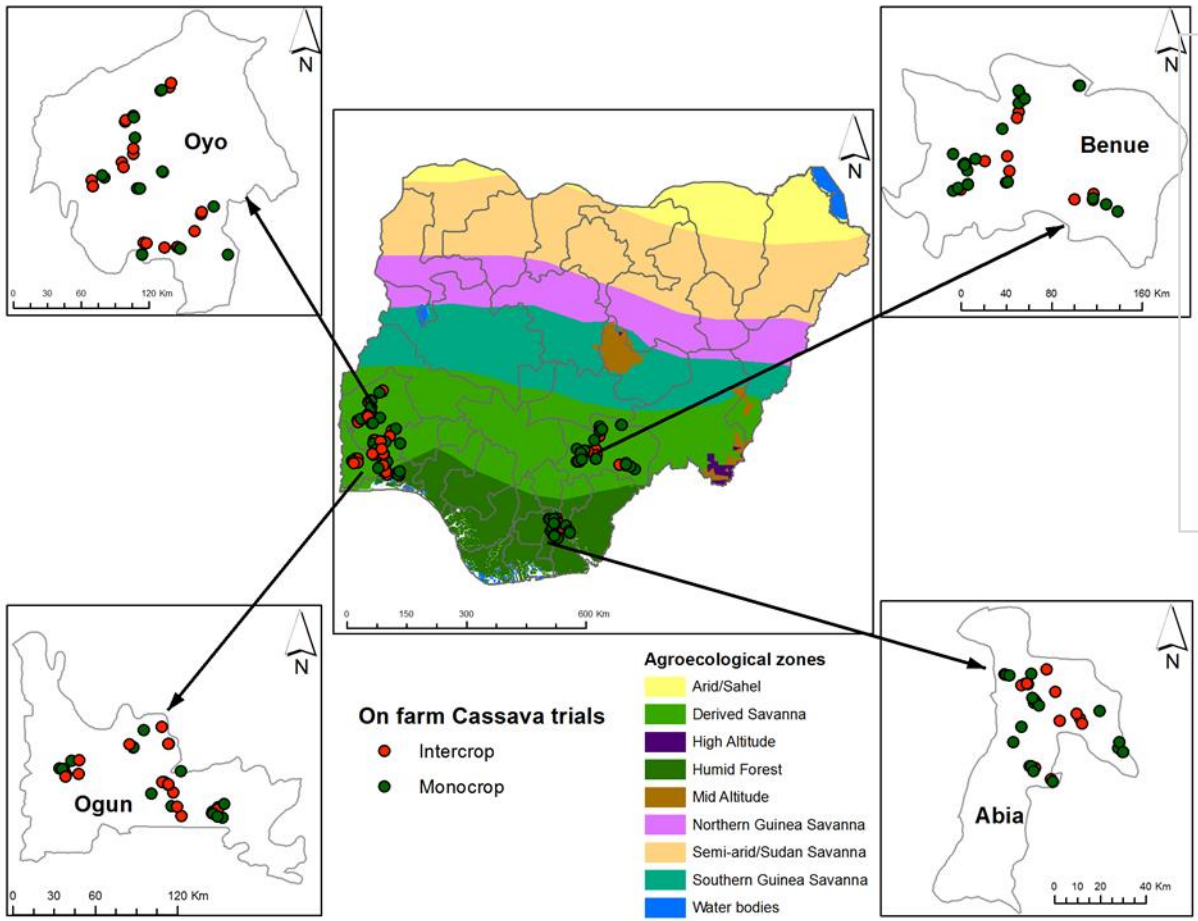
Weed control demo

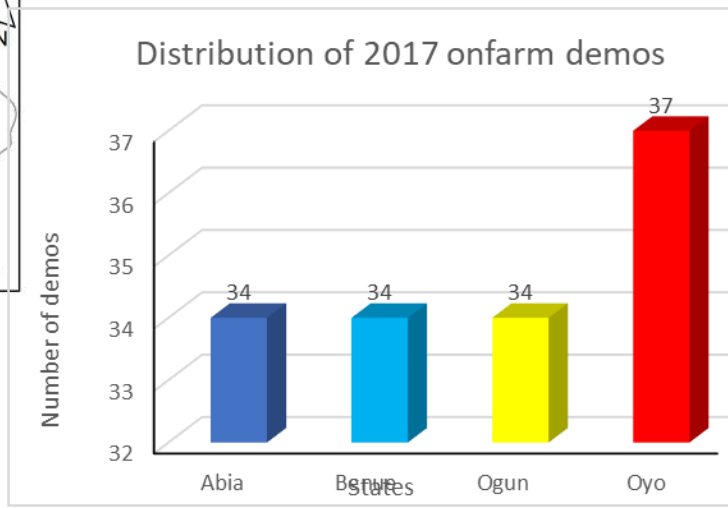
Farmer practice

Implementing partners

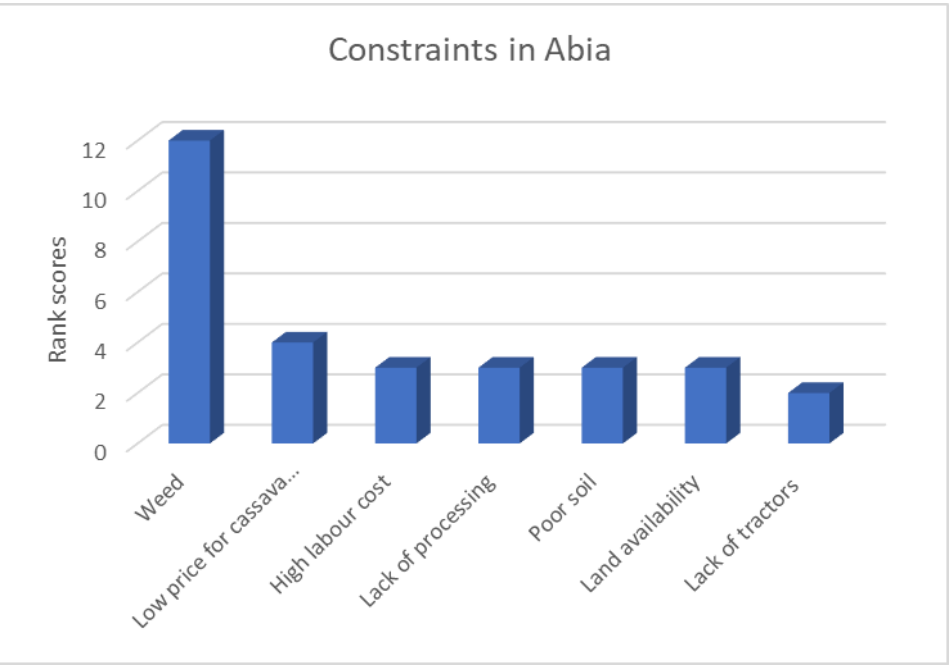
www.cassavaweed.org

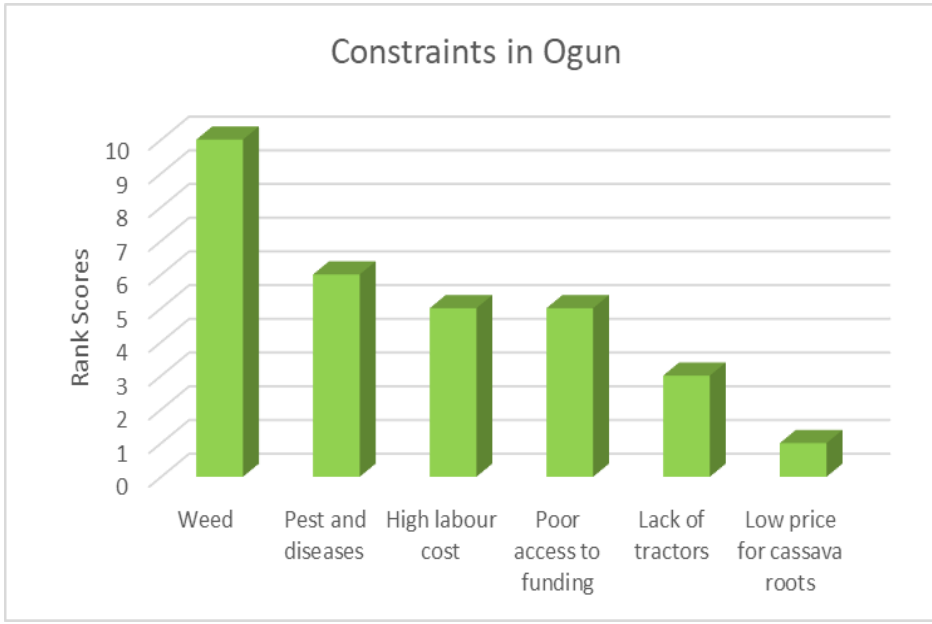
Locations of onfarm demos

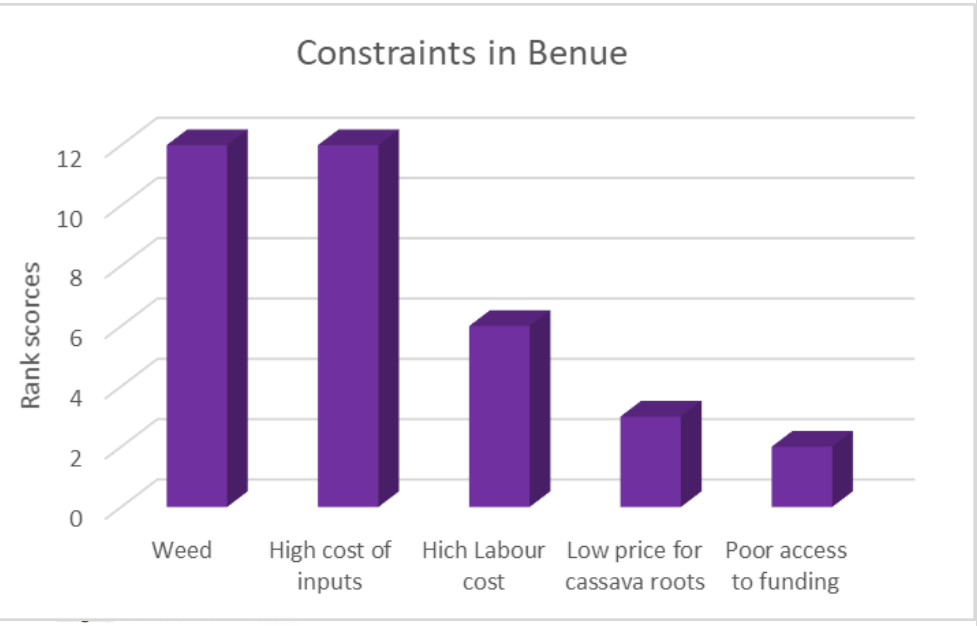


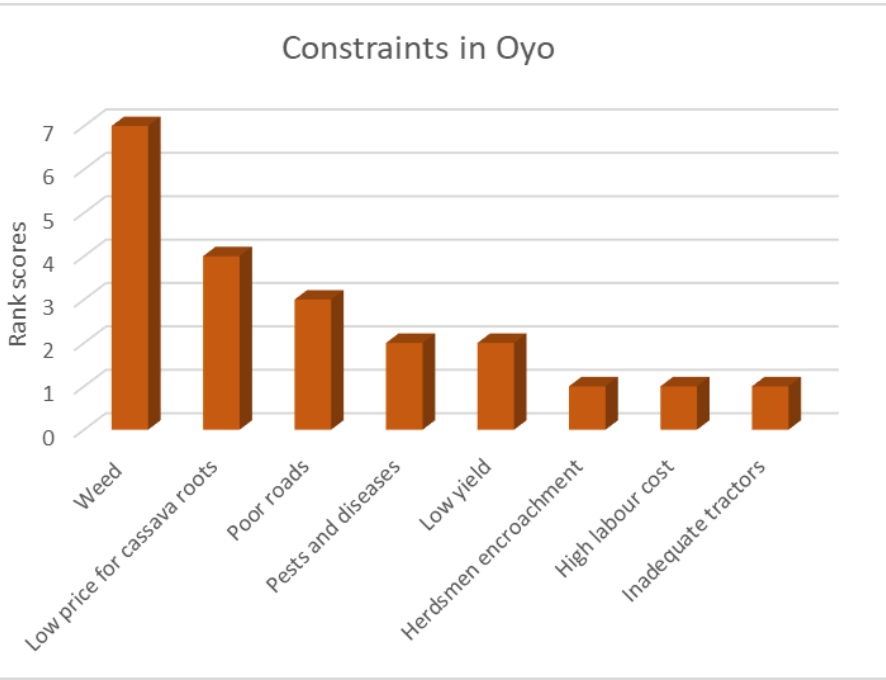


Cassava Weed Management Project

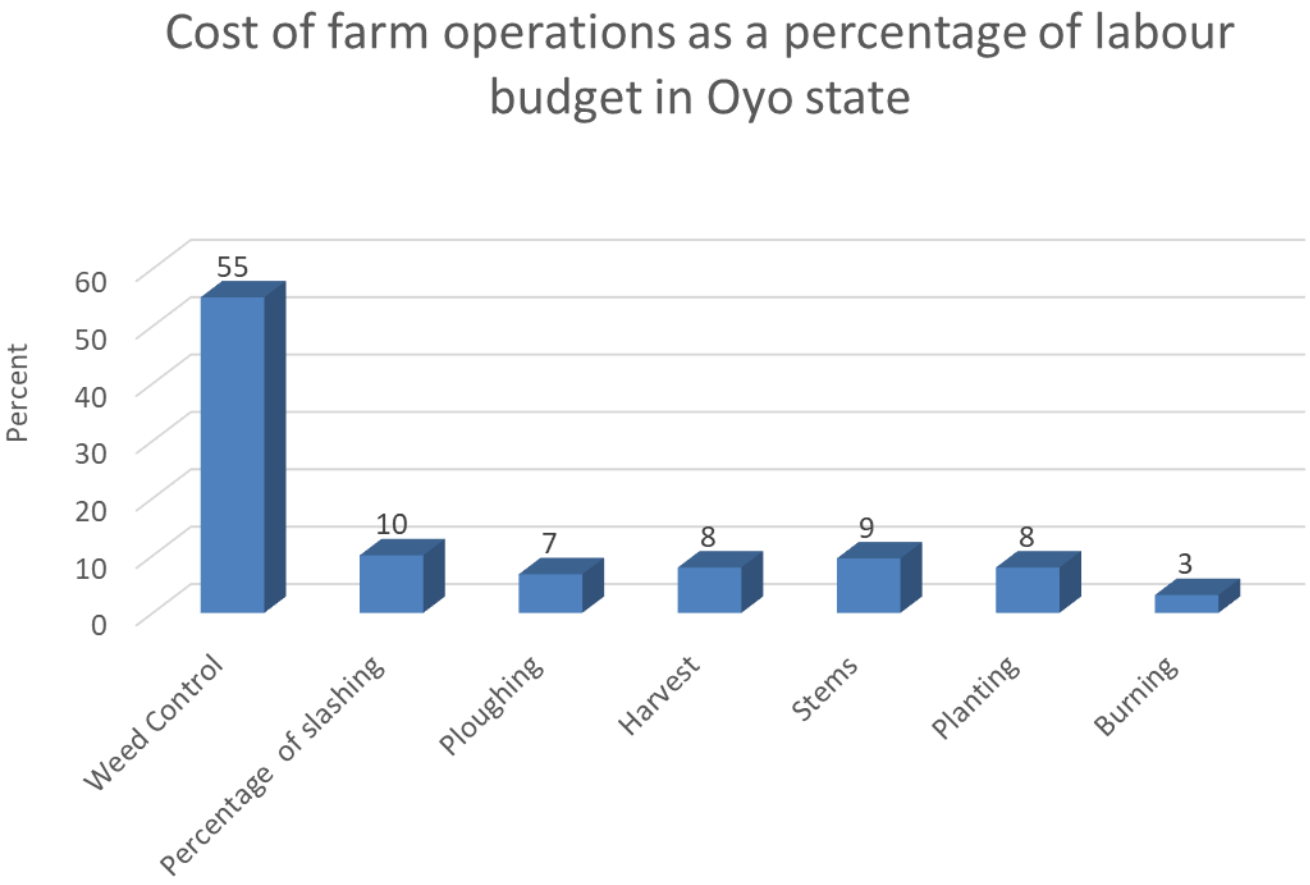




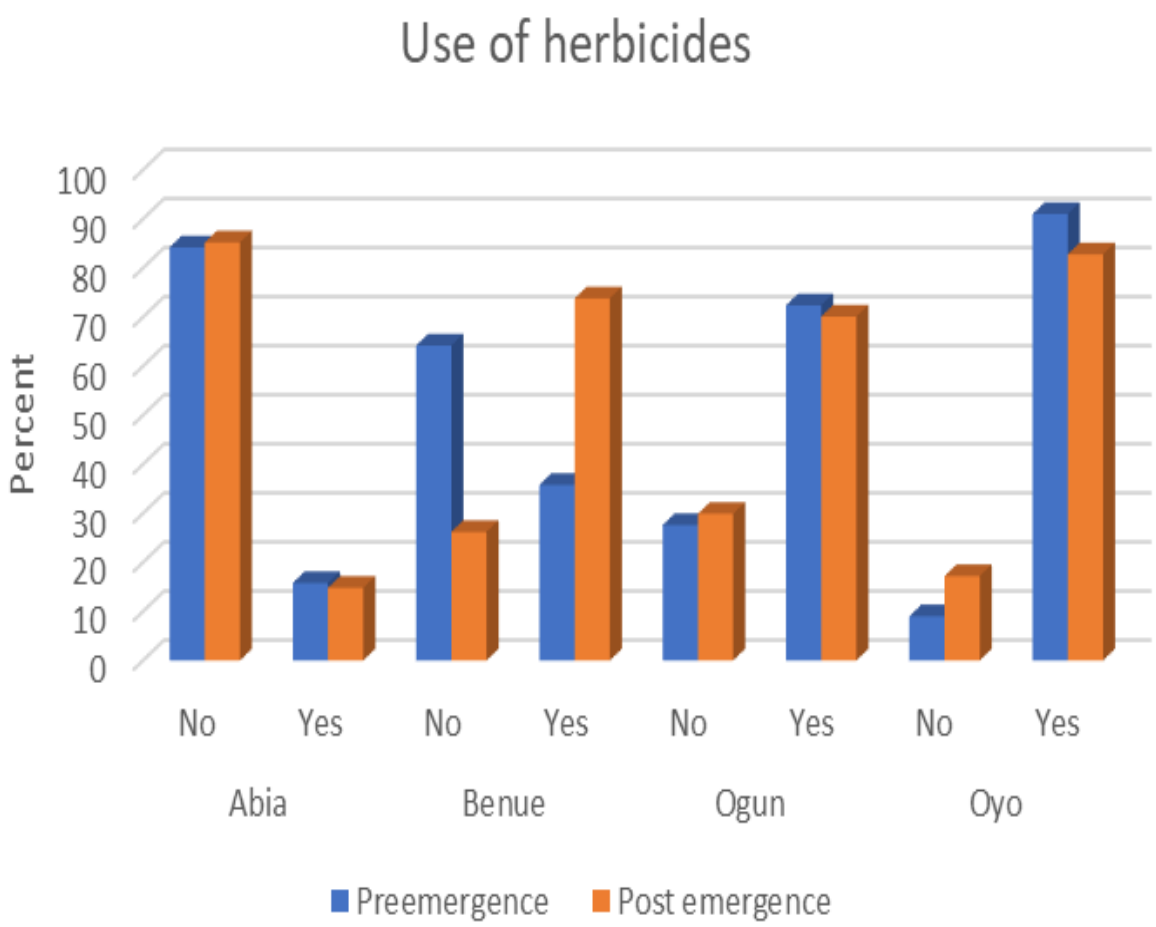




Implementing partners

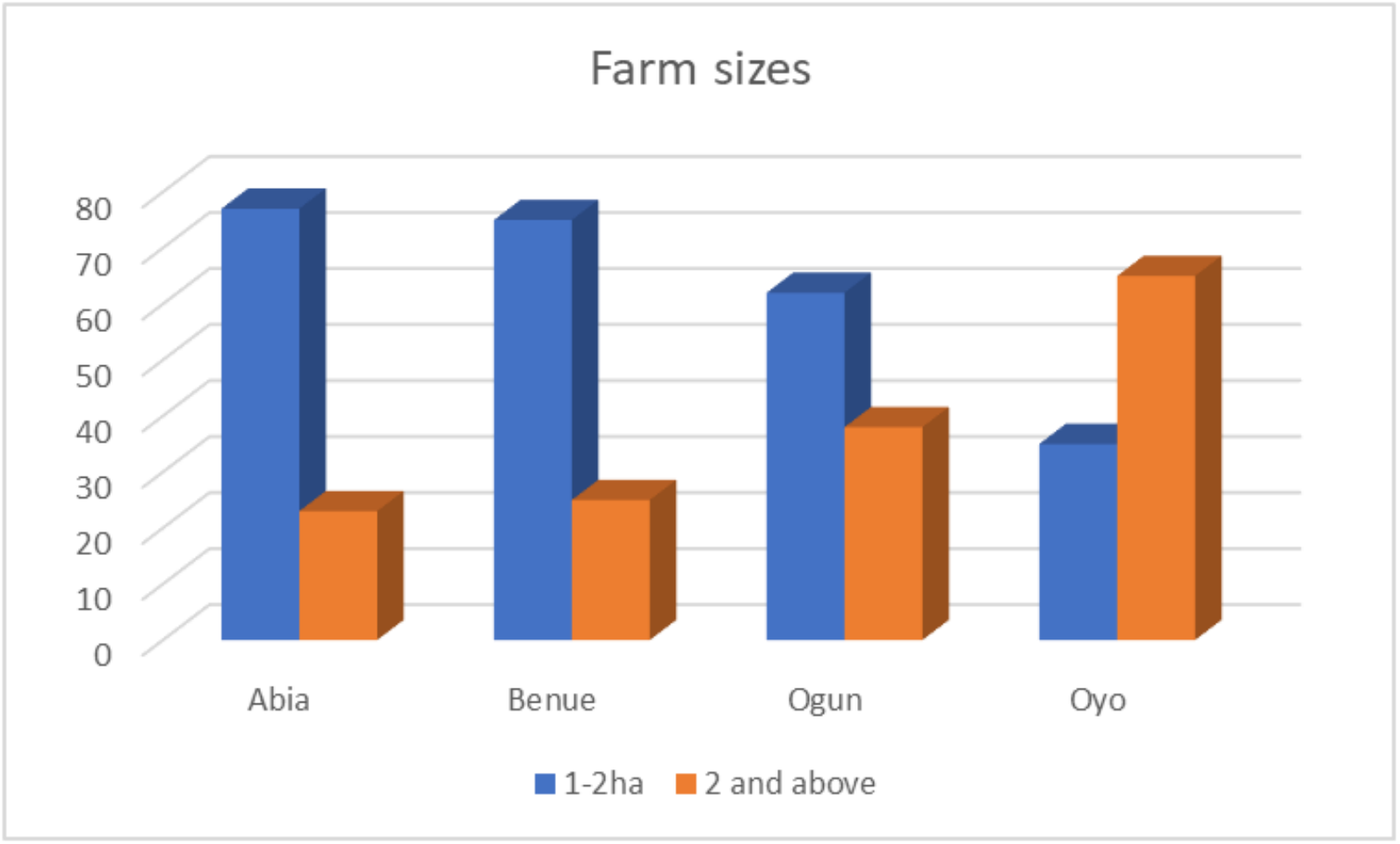

Cost of farm operations as a percentage of labour budget in Oyo state
Percent
60
50
40
30
20
10
0
55
10
7
8
9
8
3
Weed Control
Percentage of slashing
Ploughing
Harvest
Stems
Planting
Burning

Common weed control methods



Where are herbicides bought and how are they sprayed

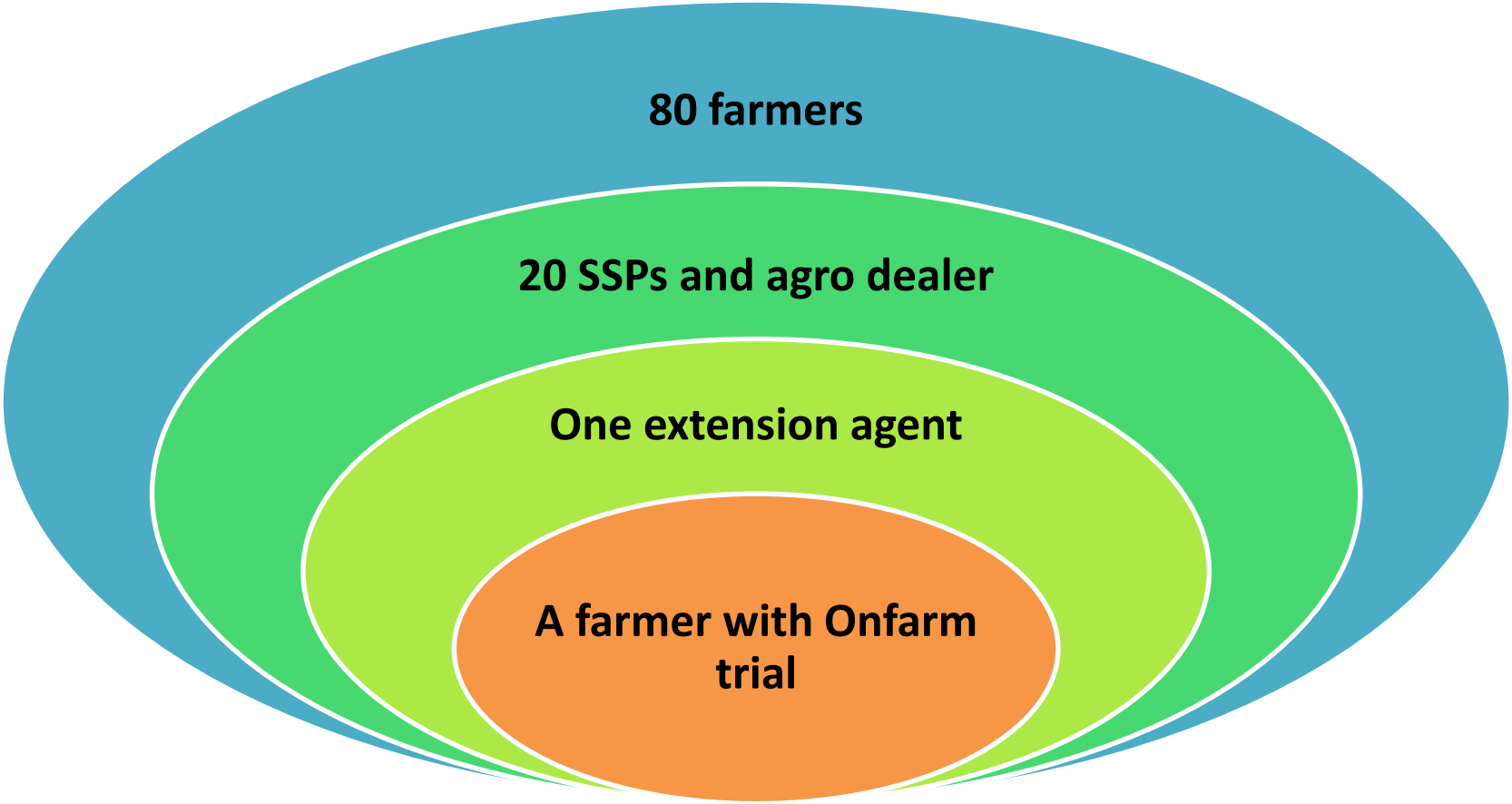
Farm sizes across the agroecological zones



Project Goal:

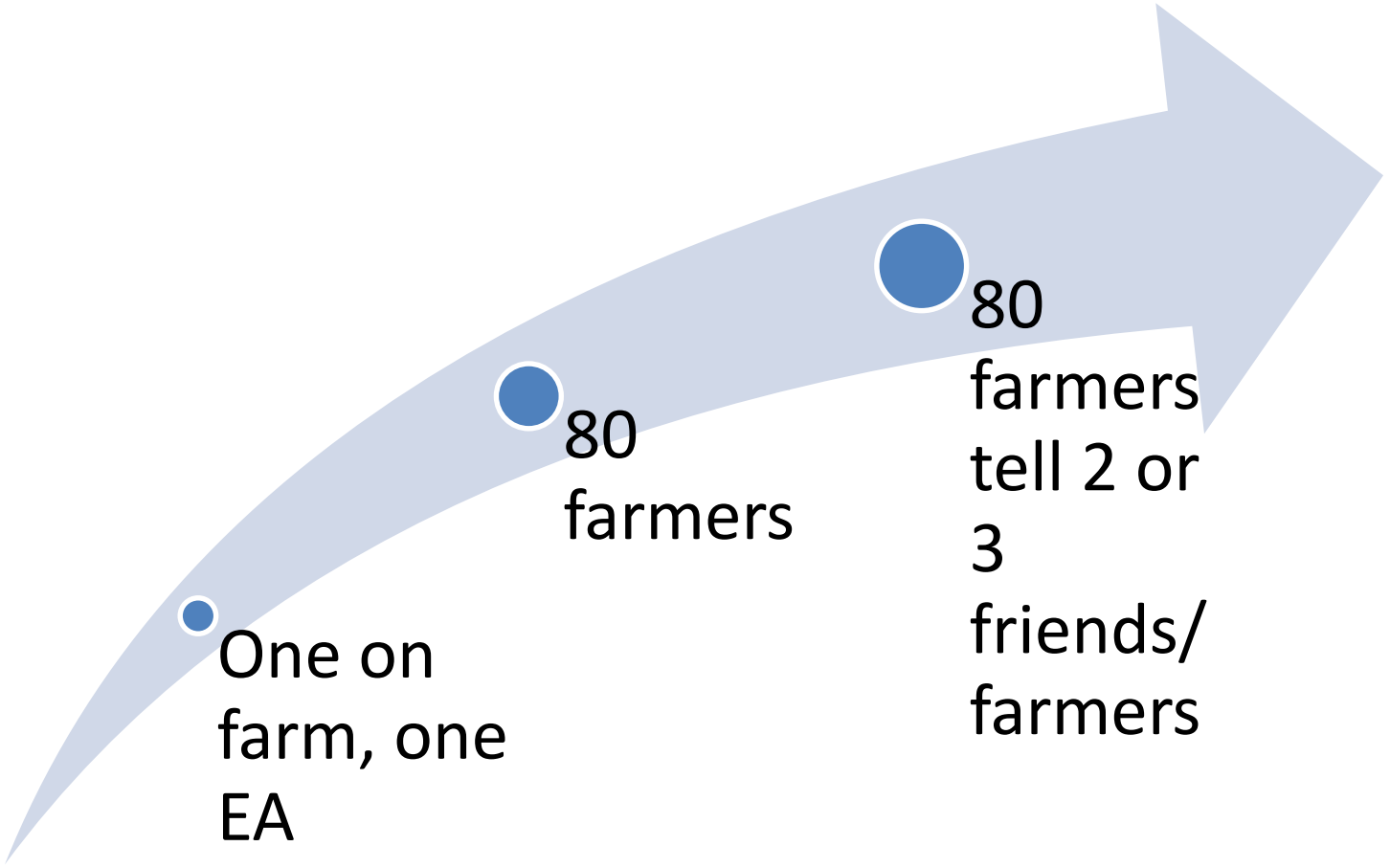
To reach 125,000 farmers with improved weed control options

Approach 1: 197 demos established = **8749 farmers**



Onfarm approach

Projected reach per site on onfarm demos

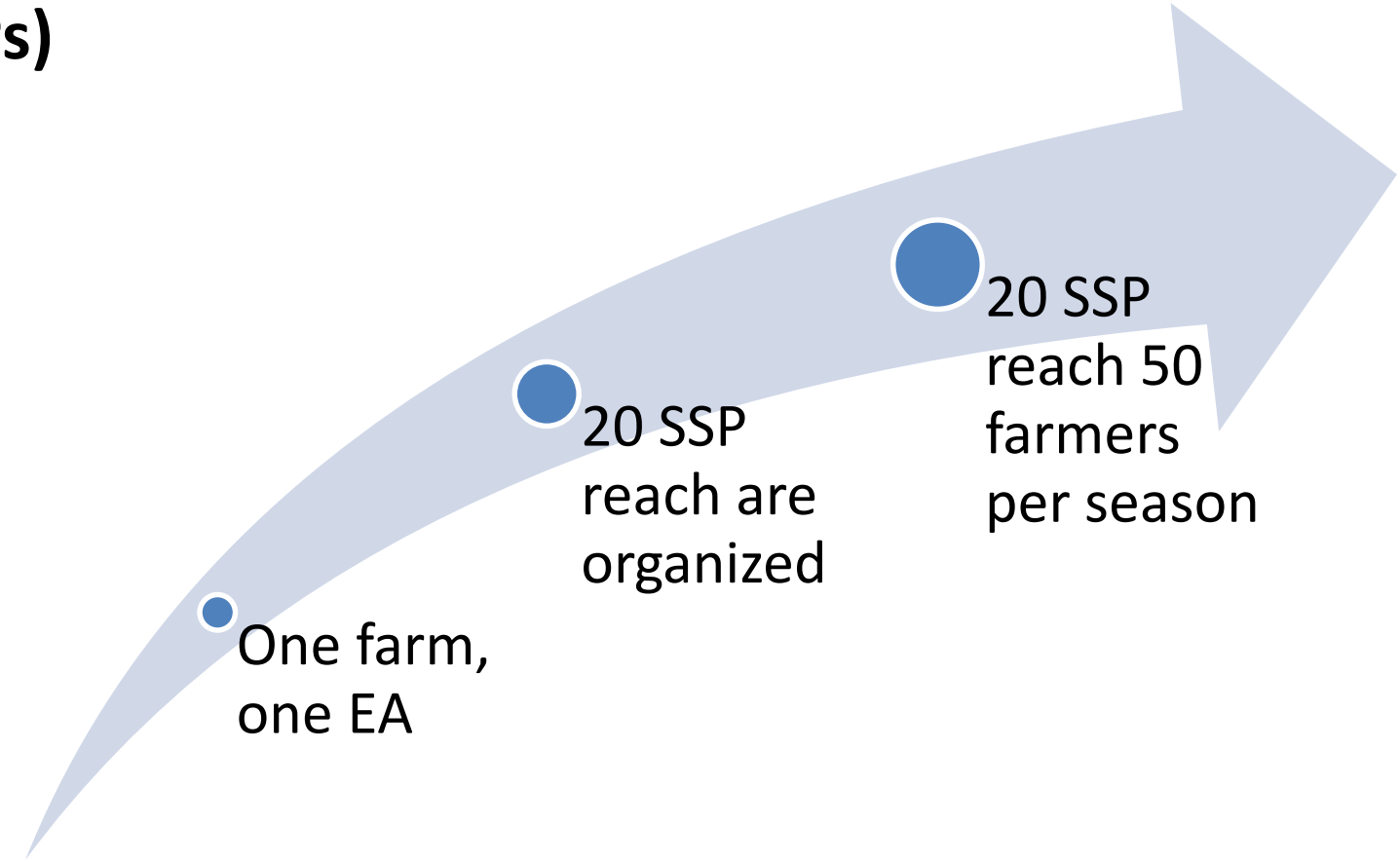


Cassava Weed Management Project

Community entrance and signing of MoU with farmers

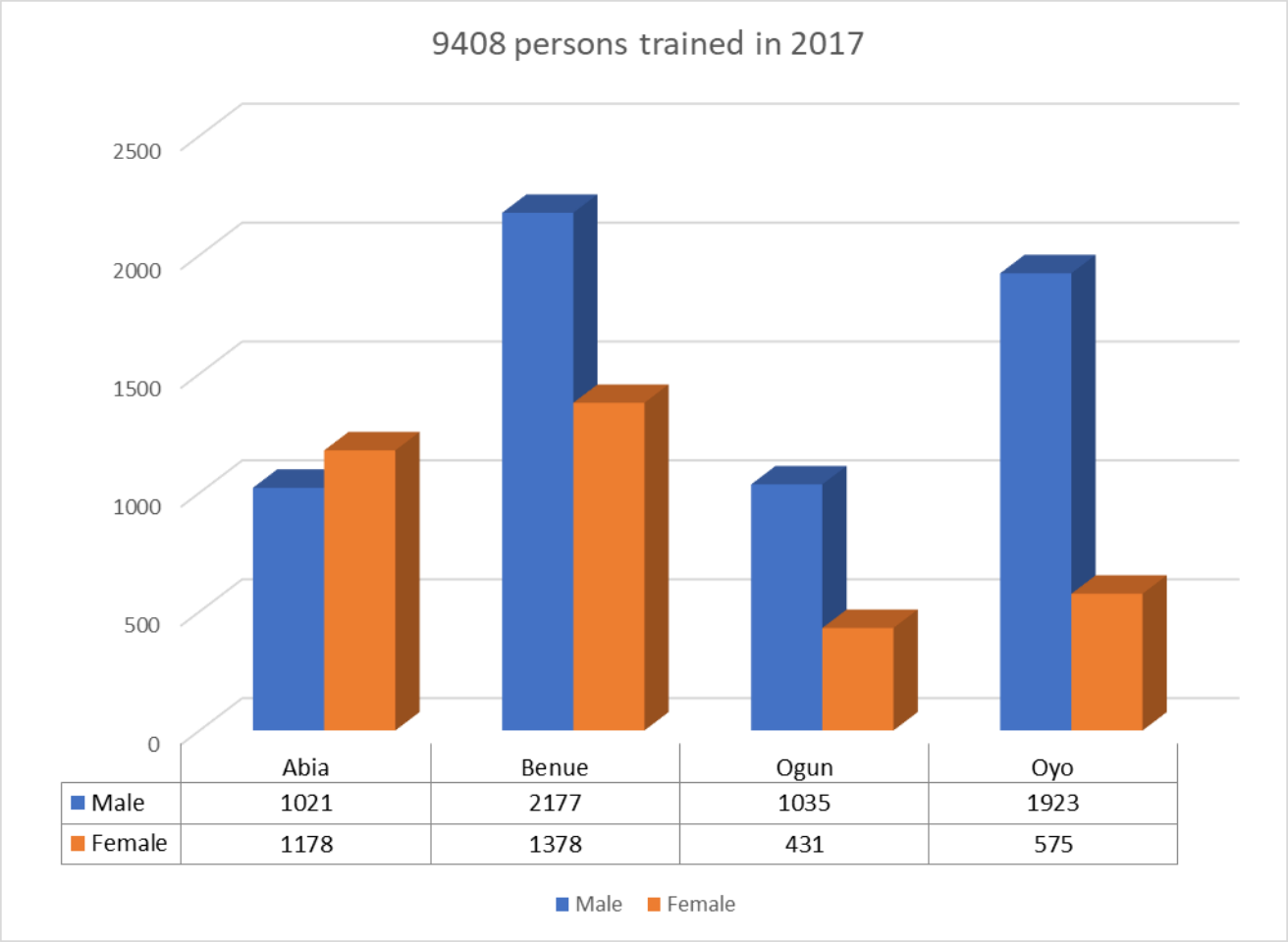
Farmer Field Days

Projected reach per site via Spray Service Providers (SSPs)



Trained 659 SSPs with NAFDAC: Abia had 105 participants, Benue had 101 participants, Ogun had 122 participants, and Oyo had 331

Cassava Weed Management Project



	Abia	Benue	Ogun	Oyo
Male	1021	2177	1035	1923
Female	1178	1378	431	575

Farmer Field Schools

- General Target= 2560 per zone are trained
- Target per EA= 320 farmers/SSPs
- Communities per EA= 16 x8= 128 FFS/state
- Number of visits to achieve 320= 16 x4modules= 64 times
- Duration of training= 8 months
- Visits per week= 2 times
- Communication Focal Person visits the training 16 times (At least visit each of the two trainings per EA)
- **Target 10240 persons reach**

Training module

Topics:

1. Land Preparation and Best Agronomic Practices.
2. Herbicides Application and Calibration
3. Safe Use of Herbicides
4. Record Keeping, Entrepreneurship, Participation and Gender

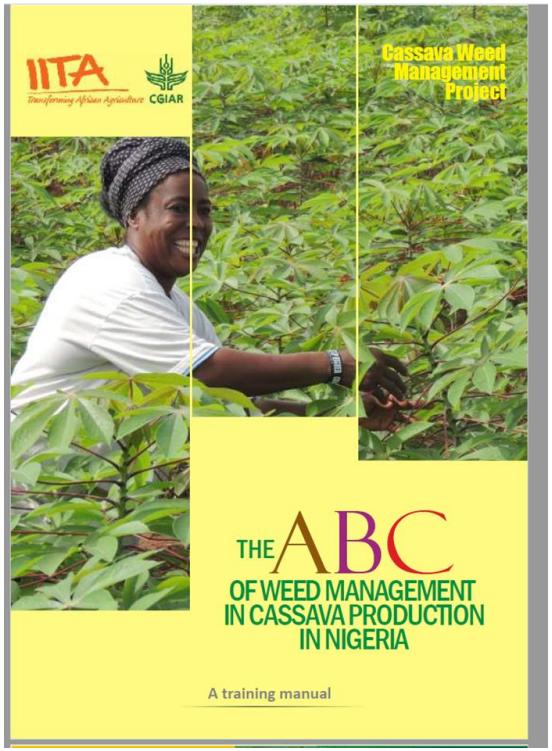
Pre and post test

M& E Tools developed

Materials produced for outreach

Calendar: 10000
Village Board: 80
Flyers: 3600

800



10800

3000

3000

Village Board (80)

Implementing partners

Printing materials made

S/No	Titles	Qty
1	Almanac	10000
2	Booklet on Herbicides Application and Safe Use (PhotoGuide)	4000
3	Flyers on 6 Steps on Weed Management in Cassava Production	3600
4	Village Board	80
5	Posters	800
6	T-Shirts	350
7	Caps	200
8	Newsletter	600
	Total	**19630**

Cassava Weed Management Project

S/No	Social media platform	Number of persons reached
1	Twitter	1311
2	Facebook	903
3	Facebook Group	408
4	LinkedIn	3157
5	SlideShare	10,410 views
6	YouTube	5808
7	WhatsApp/Telegram	400
8	Website	8409
9	Electronic Bulletin	3000
	Total	**33806**

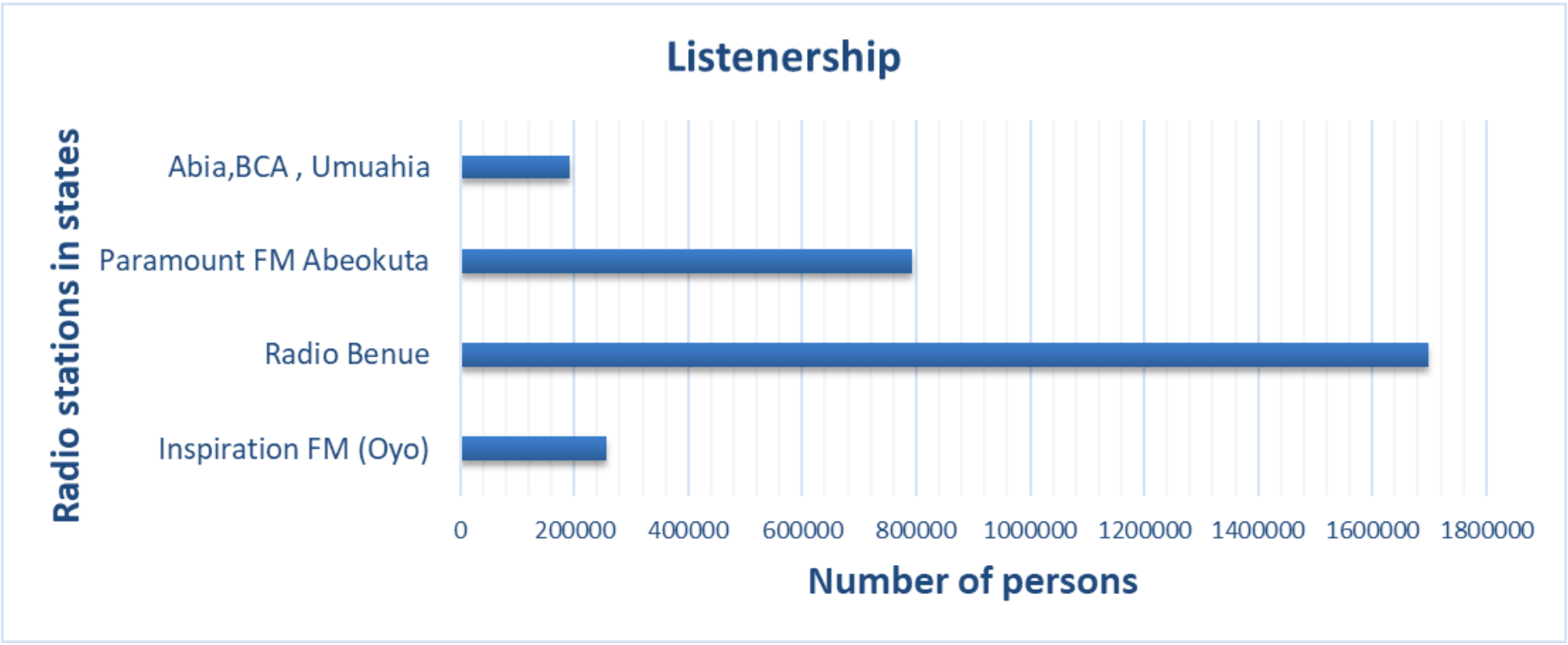
Cassava Weed Management Project

Educational Documentary on Channels TV, which is viewed by more than 20 million viewers

Number of persons reached

S/No	Channel	Number
1	Training/field Days	9408
2	Social Media	33806
3	Newspapers	87,000
4	Print materials	19630
5	Television	20 million views

Reach via Radio



How to reach 2.9 million people

Source: Media Planning Services

Advocacy on improved weed control in cassava

Going forward

1. Partnership is key (Government, Private Sector etc) to reach millions of farmers

2. We need to think about safety

3. Training is key

4. This project can generate the needed employment in communities through SSPs

5. We can double the national productivity of cassava, and create better livelihoods for our farmers.

Note the greatest disservice is to have this innovation and do nothing to pass it across to farmers

Acknowledgement

Principal Investigator:

IITA Research to Nourish Africa
CGIAR

Implementing Partners:

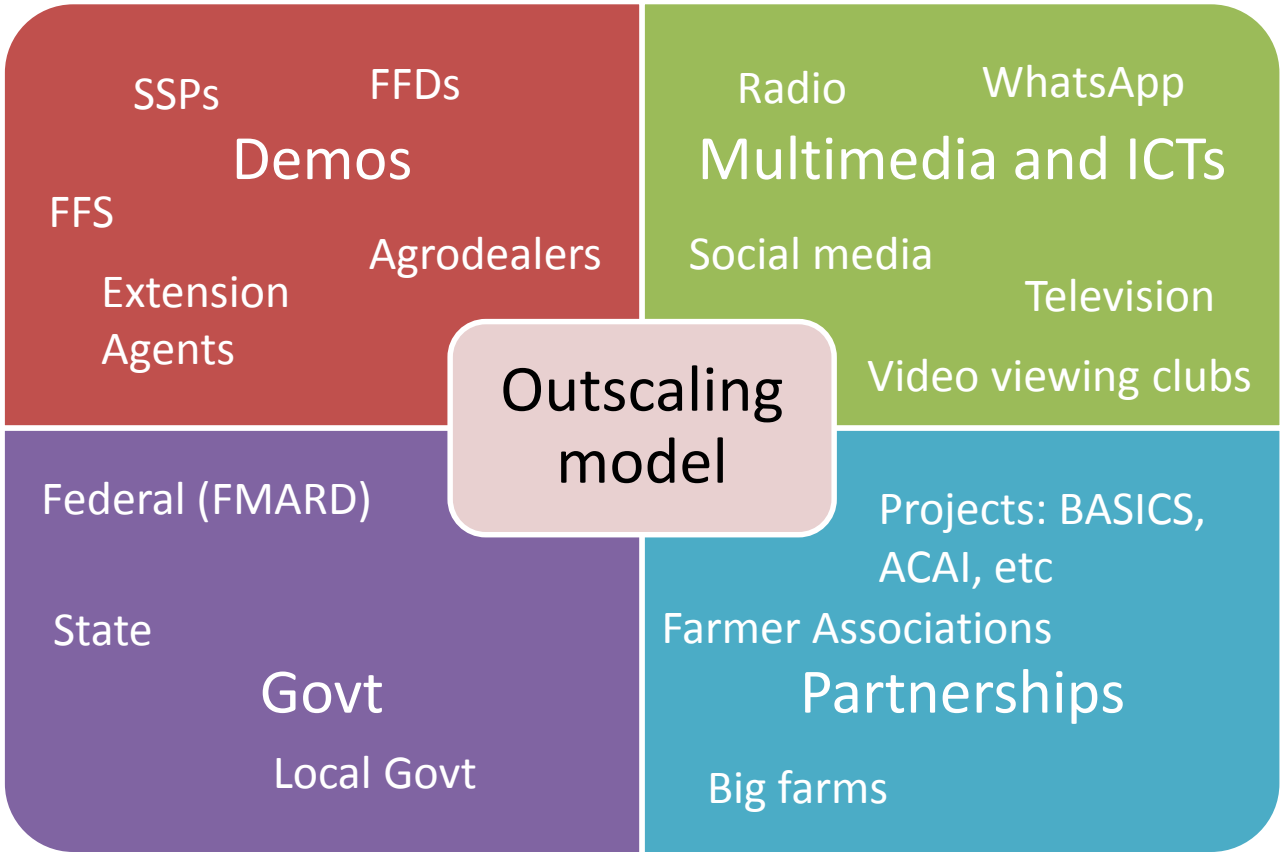
Federal University of Agriculture Abeokuta – Knowledge for Development
National Root Crops Research Institute NRCRI Umudike
University of Agriculture Makurdi – Innovation and Service

ADPs
FMARD

Funds from:

Bill & Melinda Gates foundation

Cassava Weed Management Project



Cassava Weed Management Project

Implementing partners

www.cassavaweed.org

Newspaper circulation of selected newspapers in Nigeria demonstrating the coverage of cassava weed management project's articles.

NEWSPAPER	CIRCULATION
The Punch	85,000
Vanguard	120,000
ThisDay	100,000
The New Telegraph	100,000
The Sun	140,000

Economic Analysis

Total cost of cassava production (TCCP) was determined as:

$$TCCP = \sum_{i=1}^{n} x_{i=} x_1 + x_2 + x_3 + \cdots + x_n$$

Where:

x_1 = Cost of preemergence
x_2 = Cost of Postemergence
x_3 = Cost of Spray Service providers
x_4 = Cost of pre-land preparation herbicides
x_5 = Cost of blanket application with glyphosate
x_6 = Cost of hoe weeding
x_7 = Cost of weeding with Mantis
x_8 = Cost of slashing
x_9 = Cost of burning
x_{10} = Cost of ploughing
x_{11} = Cost of stems
x_{12} = Cost of planting
x_{13} = Cost of Harvest

Total Revenue (TR)

Total revenue (TR) was calculated by using a base price of N10000 per tonne for cassava roots and N300 per bundle for cassava stems. Th

$$TR = \sum_{i=1} y_{i=} y_1 + y_2$$

Where:

y_1 = Revenue from stems

y_2 = Revenue from cassava roots

Benefit of weed control methods

Benefit of weed control was determined by taking the difference between Total Revenue (TR) and Total Cost of Cassava Production (TCCP)

Benefit = TR -TCCP

Cassava Weed Management Project

- **Objective 4.**
- **4.1 Involve farmers and other stakeholders in the research to develop improved weed management practices in cassava and**

- **4.2 Empower extension services, primarily the ADPs but also NGOs, agro-dealers, and spray service providers, to provide farmers with the knowledge they need to improve weed management practices.**