TRANSFORMING AGRICULTURE IN AFRICA
AGROECOLOGY and ORGANIC TRADE

Reducing Synthetic Pesticides and Fertilizers

Ecological Organic Agriculture Initiative in Africa

Key achievements, lessons learnt and future prospects of EOA Initiative

Venancia Wambua
EOA-I in Africa Project Manager

Overview of the Presentation

- ✓ EOA-I under Swiss Agency for Cooperation & Development (SDC) in 8 countries of Kenya, Tanzania, Uganda, Ethiopia, Mali, Nigeria, Benin and Senegal.
- ✓ The presentation is based on Results of External evaluation of the Project done end of 2017 by independent consultants
- ✓ It looks at achievements, challenges, lessons learnt and future prospects of the Project based on interventions done from 2013 to 2018 (5 years)

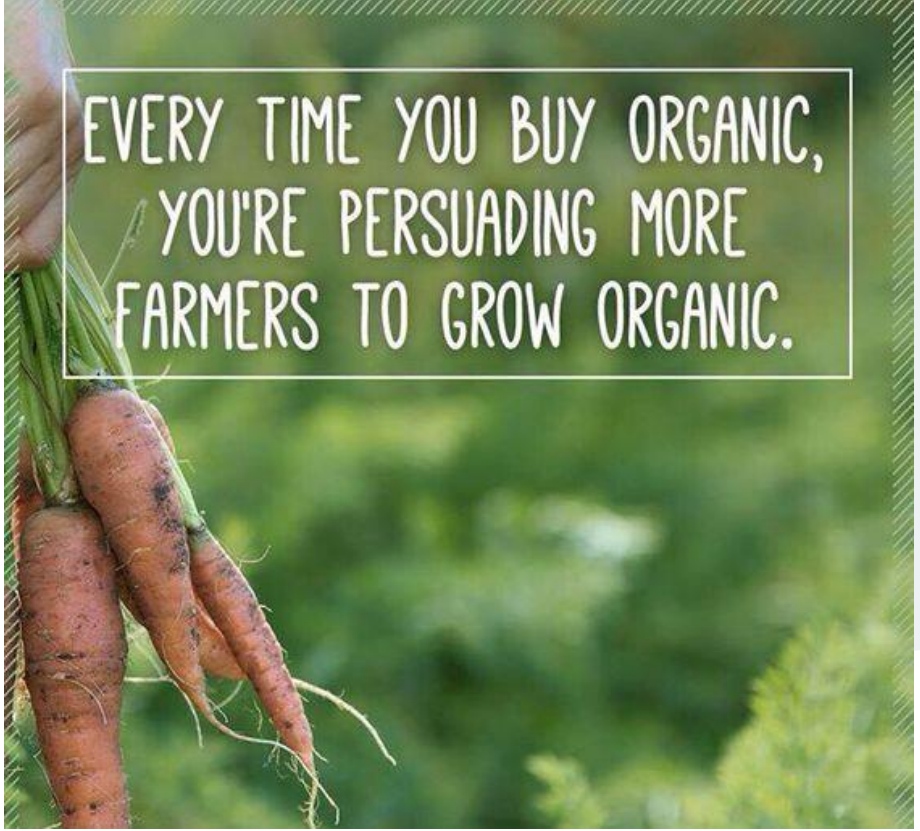
Overview

- **Lead Coordinating Agencies**
- Biovision Africa Trust for SDC contribution;
- PELUM Kenya for SSNC contribution

✓ **Phase I:** 2014-2018 (SDC)
✓ **Phase II:** 2019-2023 (SDC)

✓ **Funding:**
- Swiss Agency for Development Cooperation (SDC) ;
- Swedish Society for Nature Conservation (SSNC) and Africa Union (AU)

✓ **Beneficiaries:**
- Smallholder farmers across Africa



Strategic Focus

VISION

Resilient and vibrant Ecological Organic Agricultural systems for enhanced food and nutrient security, and sustainable development in Africa.

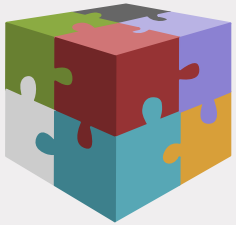
MISSION

To scale up ecologically and organically sound strategies and practices through institutional capacity development, scientific innovations, market participation, public policies and programs, outreach and communication, efficient coordination, networking and partnerships in Africa.

GOAL

To mainstream Ecological Organic Agriculture into national agricultural production systems by 2025 in order to improve agricultural productivity, food security, access to markets and sustainable development in Africa.

Strategic 6 Pillars of Implementation



Research, Training and Extension

This is responsible for understanding research and training gaps within the ecological organic agriculture value chains and undertaking appropriate activities.

Value Chain and Market Development:

This aims to stimulate development of sustainable markets and increase trade in traditional and high value agricultural produce both at domestic and export levels.

Policy and Programme Development

This supports the development and implementation of enabling policies and programs for EOA.

Information and Communication

This is charged with awareness creation and strengthening EOA extension support systems.

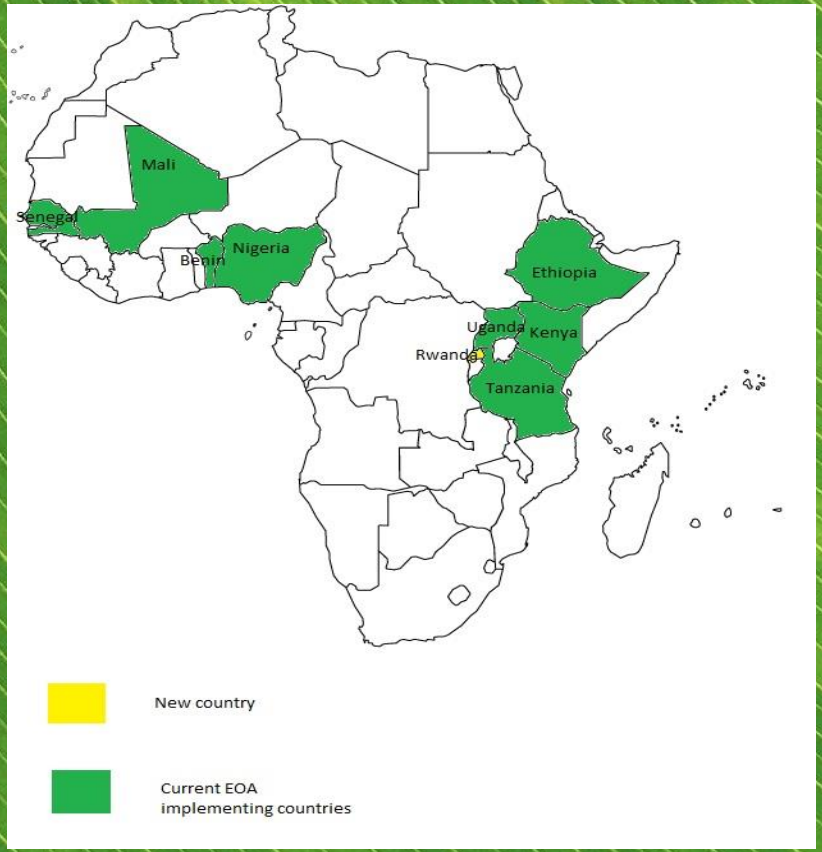
Networking and Partnerships

This calls for engagement by relevant stakeholders including governments, farmers, civil society, private sector, and the international community. The pillar is mandated with sustaining such partnerships.

Institutional Capacity Development

This supports equipping of professionals with skills and competences to facilitate community-based innovation and change processes geared towards establishing, developing and supporting EOA in Africa.

Coverage & Strategic partners



COUNTRY KEY PARTNERS

1. Kenya – Kenya Organic Agriculture Network (KOAN)

2. Senegal – National Federation For Organic Agriculture (FENAB)

3. Mali - Association des Organisations Professionnelles Paysannes (AOPP)

4. Benin - Béninoise pour la Promotion de l'Agriculture Biologique (OBEPAB)

5. Nigeria – Association of Organic Agriculture Practitioners of Nigeria (NOAN)

6. Ethiopia – Institute for Sustainable Development (ISD)

7. Uganda – National Organic Agriculture Movement of Uganda (NOGAMU)

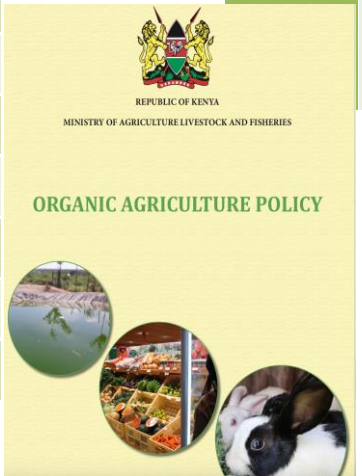
8. Tanzania – Tanzania Organic Agriculture Movement (TOAM)

Overall, over 32 partners are involved

Key Achievements

Towards EOA-I Goal Attainment National Policies and Plans

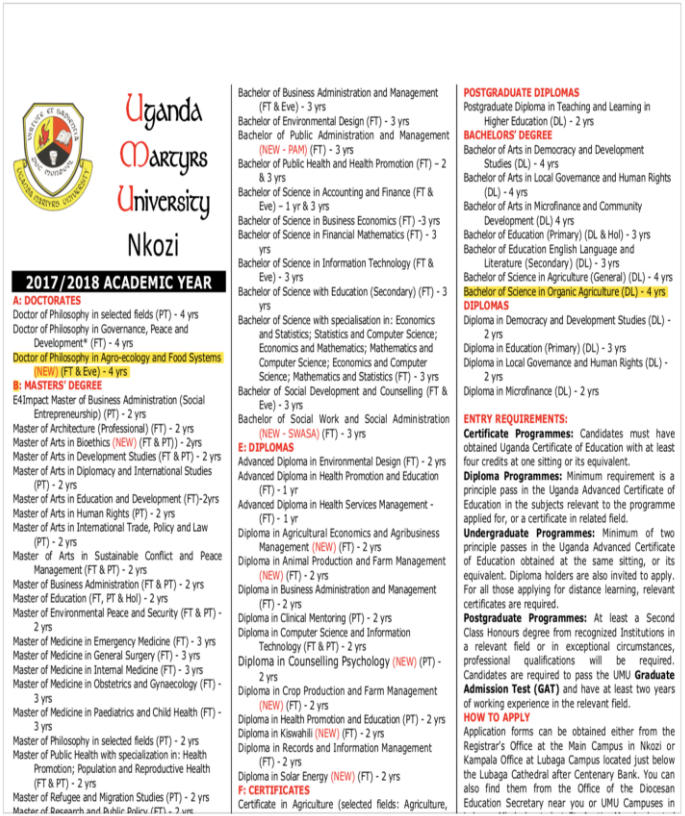
Plans	
Benin	Innovation for Sustainable Agricultural Growth (2017)
Ethiopia	
Kenya	
Mali	
Nigeria	
Senegal	
Tanzania	Greening Island Initiative plan
	Tanzania Agricultural Sector Development Programme (ASDP II)
	Organic Sector Development Program (OSDP)
	Organic Policy Action Paper (OPAP)
Uganda	National Agriculture Sector Strategic Plan 2015/16-2019/20.



Policies	
Benin	
Ethiopia	
Kenya	Organic Agriculture Policy 2017 (5th Draft)
Mali	
Nigeria	Organic Agriculture Act of 2017
Senegal	National Agricultural Investment Program for Food Security and Nutrition (PNIASAN),- awaiting validation
Tanzania	
Uganda	Draft Uganda Organic Agriculture Policy. Awaits Ministry of Finance to provide a certificate of financial implication National Fertilizer Policy (NFP) 2016

Key Achievements

Towards EOA-I Goal Attainment- Focus on University Progammes



Uganda Martyrs University Nkozi

2017/2018 ACADEMIC YEAR

A: DOCTORATES

Doctor of Philosophy in selected fields (PT) - 4 yrs
Doctor of Philosophy in Governance, Peace and Development* (FT) - 4 yrs
Doctor of Philosophy in Agro-ecology and Food Systems (NEW) (FT & Eve) - 4 yrs

B: MASTERS' DEGREE

E4Impact Master of Business Administration (Social Entrepreneurship) (PT) - 2 yrs
Master of Architecture (Professional) (FT) - 2 yrs
Master of Arts in Bioethics (NEW) (FT & PT)) - 2yrs
Master of Arts in Development Studies (FT & PT) - 2 yrs
Master of Arts in Diplomacy and International Studies (PT) - 2 yrs
Master of Arts in Education and Development (FT)-2yrs
Master of Arts in Human Rights (PT) - 2 yrs
Master of Arts in International Trade, Policy and Law (PT) - 2 yrs
Master of Arts in Sustainable Conflict and Peace Management (FT & PT) - 2 yrs
Master of Business Administration (FT & PT) - 2 yrs
Master of Education (FT, PT & Hol) - 2 yrs
Master of Environmental Peace and Security (FT & PT) - 2 yrs
Master of Medicine in Emergency Medicine (FT) - 3 yrs
Master of Medicine in General Surgery (FT) - 3 yrs
Master of Medicine in Internal Medicine (FT) - 3 yrs
Master of Medicine in Obstetrics and Gynaecology (FT) - 3 yrs
Master of Medicine in Paediatrics and Child Health (FT) - 3 yrs
Master of Philosophy in selected fields (PT) - 2 yrs
Master of Public Health with specialization in: Health Promotion; Population and Reproductive Health (FT & PT) - 2 yrs
Master of Refugee and Migration Studies (PT) - 2 yrs
Master of Research and Public Policy (FT) - 2 yrs
Bachelor of Business Administration and Management (FT & Eve) - 3 yrs
Bachelor of Environmental Design (FT) - 3 yrs
Bachelor of Public Administration and Management (NEW - PAM) (FT) - 3 yrs
Bachelor of Public Health and Health Promotion (FT) – 2 & 3 yrs
Bachelor of Science in Accounting and Finance (FT & Eve) – 1 yr & 3 yrs
Bachelor of Science in Business Economics (FT) -3 yrs
Bachelor of Science in Financial Mathematics (FT) - 3 yrs
Bachelor of Science in Information Technology (FT & Eve) - 3 yrs
Bachelor of Science with Education (Secondary) (FT) - 3 yrs
Bachelor of Science with specialisation in: Economics and Statistics; Statistics and Computer Science; Economics and Mathematics; Mathematics and Computer Science; Economics and Computer Science; Mathematics and Statistics (FT) - 3 yrs
Bachelor of Social Development and Counselling (FT & Eve) - 3 yrs
Bachelor of Social Work and Social Administration (NEW - SWASA) (FT) - 3 yrs

E: DIPLOMAS

Advanced Diploma in Environmental Design (FT) - 2 yrs
Advanced Diploma in Health Promotion and Education (FT) - 1 yr
Advanced Diploma in Health Services Management - (FT) - 1 yr
Diploma in Agricultural Economics and Agribusiness Management (NEW) (FT) - 2 yrs
Diploma in Animal Production and Farm Management (NEW) (FT) - 2 yrs
Diploma in Business Administration and Management (FT) - 2 yrs
Diploma in Clinical Mentoring (PT) - 2 yrs
Diploma in Computer Science and Information Technology (FT & PT) - 2 yrs
Diploma in Counselling Psychology (NEW) (PT) - 2 yrs
Diploma in Crop Production and Farm Management (NEW) (FT) - 2 yrs
Diploma in Health Promotion and Education (PT) - 2 yrs
Diploma in Kiswahili (NEW) (FT) - 2 yrs
Diploma in Records and Information Management (FT) - 2 yrs
Diploma in Solar Energy (NEW) (FT) - 2 yrs

F: CERTIFICATES

Certificate in Agriculture (selected fields: Agriculture,

POSTGRADUATE DIPLOMAS

Postgraduate Diploma in Teaching and Learning in Higher Education (DL) - 2 yrs

BACHELORS' DEGREE

Bachelor of Arts in Democracy and Development Studies (DL) - 4 yrs
Bachelor of Arts in Local Governance and Human Rights (DL) - 4 yrs
Bachelor of Arts in Microfinance and Community Development (DL) 4 yrs
Bachelor of Education (Primary) (DL & Hol) - 3 yrs
Bachelor of Education English Language and Literature (Secondary) (DL) - 3 yrs
Bachelor of Science in Agriculture (General) (DL) - 4 yrs
Bachelor of Science in Organic Agriculture (DL) - 4 yrs

DIPLOMAS

Diploma in Democracy and Development Studies (DL) - 2 yrs
Diploma in Education (Primary) (DL) - 3 yrs
Diploma in Local Governance and Human Rights (DL) - 2 yrs
Diploma in Microfinance (DL) - 2 yrs

ENTRY REQUIREMENTS:

Certificate Programmes: Candidates must have obtained Uganda Certificate of Education with at least four credits at one sitting or its equivalent.

Diploma Programmes: Minimum requirement is a principle pass in the Uganda Advanced Certificate of Education in the subjects relevant to the programme applied for, or a certificate in related field.

Undergraduate Programmes: Minimum of two principle passes in the Uganda Advanced Certificate of Education obtained at the same sitting, or its equivalent. Diploma holders are also invited to apply. For all those applying for distance learning, relevant certificates are required.

Postgraduate Programmes: At least a Second Class Honours degree from recognized Institutions in a relevant field or in exceptional circumstances, professional qualifications will be required. Candidates are required to pass the UMU **Graduate Admission Test (GAT)** and have at least two years of working experience in the relevant field.

HOW TO APPLY

Application forms can be obtained either from the Registrar's Office at the Main Campus in Nkozi or Kampala Office at Lubaga Campus located just below the Lubaga Cathedral after Centenary Bank. You can also find them from the Office of the Diocesan Education Secretary near you or UMU Campuses in

Country & No of Universities	Programme
Benin (1)	• *University of Calabi:* doing research on organic Fertilizers and selling to farmers; they are currently doing research on organic livestock. • The University also has integrated production pest management (IPPM) courses.
Ethiopia (1)	• *Mekele University*. There are Organic Agriculture course units within the Degree programmes, and Masters Students carrying out research on Organic agriculture related studies.
Kenya (1)	• *Egerton University:* Organic Agriculture course units within the undergraduate degree programmes, and Masters Students carrying out research on Organic agriculture related studies.
Mali	• Organic Agriculture course units within the undergraduate degree programmes,

Key Achievements

Towards EOA-I Goal Attainment- Focus on University Progammes

UNIVERSITE CHEIKH ANTA DIOP
Institut Supérieur d'Agriculture et Entreprenariat

Université Cheikh Anta Diop de Dakar
ISAE
INSTITUT SUPÉRIEUR D'AGRICULTURE ET ENTREPRENARIAT

PROJET DE

LICENCE PROFESSIONNELLE

En

Agriculture Ecologique et Biologique (LAEB Pro)

Présenté par
L'Université Cheikh Anta DIOP de Dakar (UCAD, Sénégal)
Institut Supérieur d'Agriculture et Entreprenariat

Responsables pédagogiques :
M. Karamoko Diarra, Professeur titulaire
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Dr. Nalla Mbaye, Maître Assistant
Email : nalla.mbaye@ucad.edu.sn

Partenaire stratégique :
Enda Pronat
Biovision
Fenab
Ugb
Isra
Ensa
Cfph
Etc.

Nigeria	• Tertiary education organizations like NUC, NBTE, and NRCN have been lobbied to review Curriculum to include organic agriculture. • A PhD student has been facilitated to carry out research on Indigenous knowledge and Organic Agriculture characterization amongst farmers in Nigeria.
Uganda (2)	• At *Makerere University*: - PhD. and Masters students are carrying out research on organic Agriculture while the undergraduates are exposed to organic Agriculture through course units. • At *Uganda Martyrs University* Nkozi – there is a fully-fledged undergraduate course on organic Agriculture, have developed a Masters course in Agro Ecology, and a PhD programme in agro ecology and livelihood systems.
Senegal (1)	• At *University of Dakar*, the conceptualization of Organic Agriculture Degree started in 2014. To date, 6 students across Bachelors, Masters & PhD have graduated. Currently 5 students are on attachment.
Tanzania (1)	• There are ongoing Organic Agriculture Research programmes at PhD. and Masters levels at *Sokoine University*. The first 2 PhDs to graduate in 2018. Dar es Salaam University is conducting research around EOA and is also playing a front role in EOA curriculum review.

Key Achievements

Towards EOA-I Goal Attainment- Focus on Standards and Certification

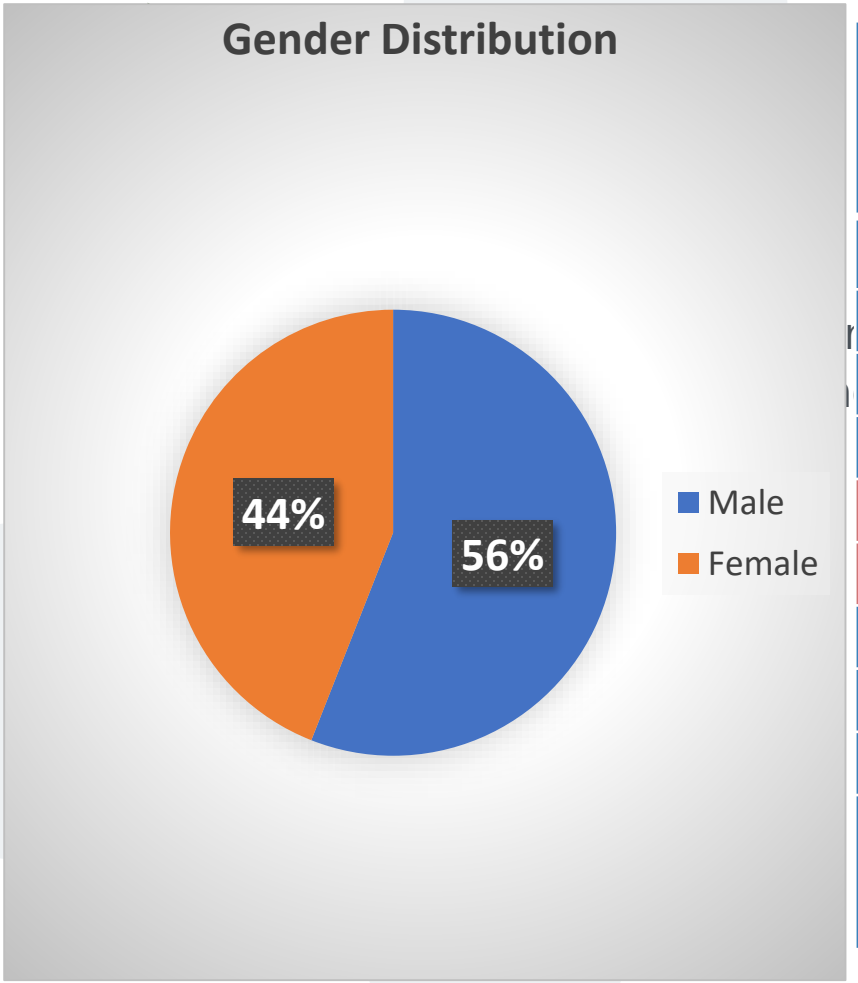
Kilimohai has been in existence since 2007. Its main purpose is to maintain a single organic standard for organic agriculture production under East African conditions. The EOA-I continued to support certification of Farmers for the Kilimo Hai Mark

Key Achievements

Towards EOA-I Goal Attainment- Focus on Standards and Certification

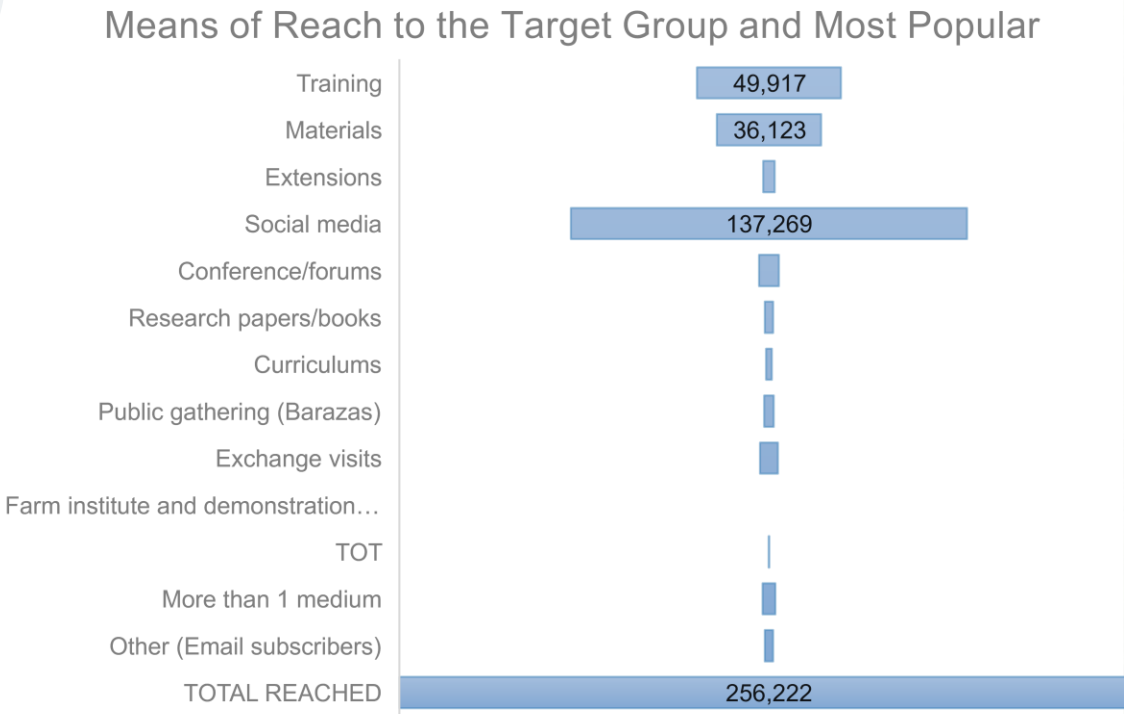
Country	PGS & ICS Processes
Benin	• 10 facilitators undertaken through ICS & PGS • 3 organic producers associations trained in ICS & PGS
Ethiopia	• 78 producers sensitized on PGS and 50 vegetable farmers undergoing PGS process.
Kenya	• 15 PGS certification
Mali	•
Nigeria	• Fifty-six (56) trained in Participatory Guarantee Syst procedure of certification. • Nigeria 47 local inspectors
Uganda	• 11 Local Inspectors trained in PGS • 226 farmers trained in ICS
Senegal	•
Tanzania	• 42 PGS have been developed; 12 bear active licenses under East African Organic Products Standard. • 6 ICS groups have been formed.

EOA Reach to Households & Other Target Groups

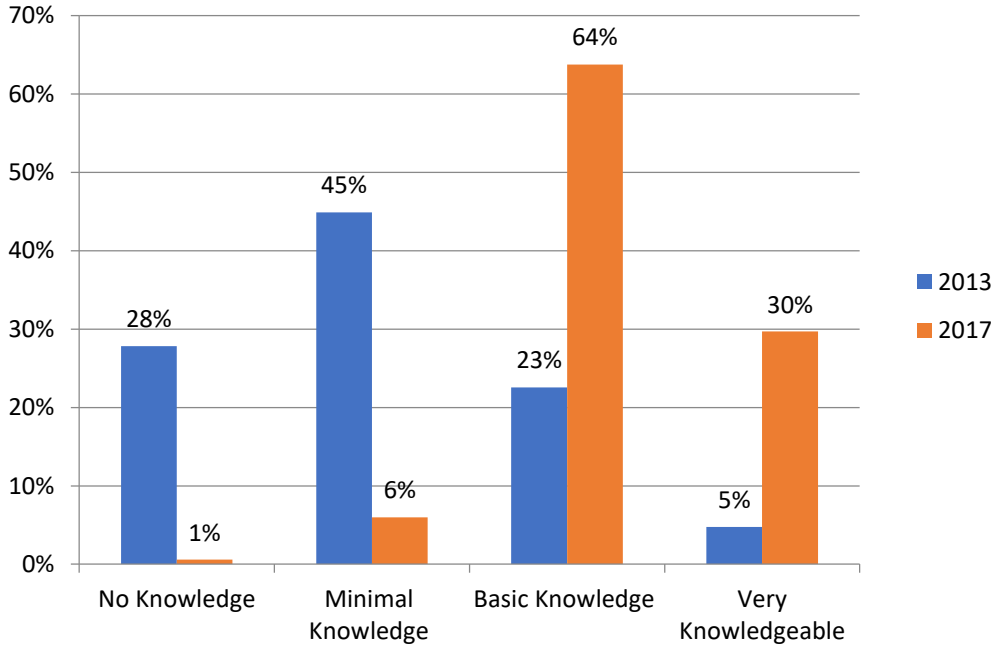


Gender Distribution		
Country	Male	Female
Benin	66%	34%
Ethiopia	80%	20%
Kenya	54%	46%
Mali	31%	69%
Nigeria	33%	67%
Senegal	67%	33%
Tanzania	55%	45%
Uganda	61%	39%
Grand Total	56%	44%

EOA Reach to Households & Other Target Groups



EOA Reach to Households & Other Target Groups
CHANGE IN KNOWLEDGE ABOUT EOA PRACTICES



INFLUENCE ON ATTITUDE

The results indicated 80% of the producers do not agree with the negative stereotype within the African context that “Organic farming is for those who cannot afford chemicals and or non-organic seeds”

Attitudes towards EOA Practices					
Statement	Strongly agree	Agree	Indifferent	Disagree	Strongly disagree
1. Organic farming is for those who cannot afford chemicals and or non-organic seeds	3%	13%	4%	33%	47%
1. Non-organic farming gives more yields than organic farming	13%	15%	14%	26%	31%
1. Organic farming is only for household use not market	1%	6%	10%	44%	38%
1. Organic farming is cheaper than non-organic farming	23%	16%	11%	27%	24%
1. Demand for organic products is lower than that of non-organic products	3%	10%	22%	31%	34%
1. There is no market for organic products	5%	15%	12%	35%	34%

ADOPTION OF EOA PRACTICES

The intention of EOA-I in providing training and training materials as well holding forums, conferences and EOA practices and product marketing through print and electronic media is to promote greater adoption of EOA practices by producers.

EOA PRACTICES INTRODUCED TO FARMERS

1) Intercropping (67%)- most adopted
2) Crop rotation(66%)
3) Mulching (63%)
4) Incorporation of farm residue to improve soil fertility (59%)
5) Use of farm yard manure
6) Cover crops
7) Green manure
8) Compost to improve soil fertility
9) Green fallow period
10) Compositing farmyard manure on the farm
11) Inorganic fertilizer
12) Animal manure
13) Water conservation technologies
14) Correction of soil pH
15) Soil conservation measure
16) Crop rotation
17) Ploughing in leguminous plants
18) Soil testing
19) Zero tillage
20) Nitrogen fixing plants
21) Mexican sunflower
22) Push pull (11.1%)
23) Liming (9.4%)
24) Bio-slurry (8.4%)

ADOPTION OF EOA PRACTICES

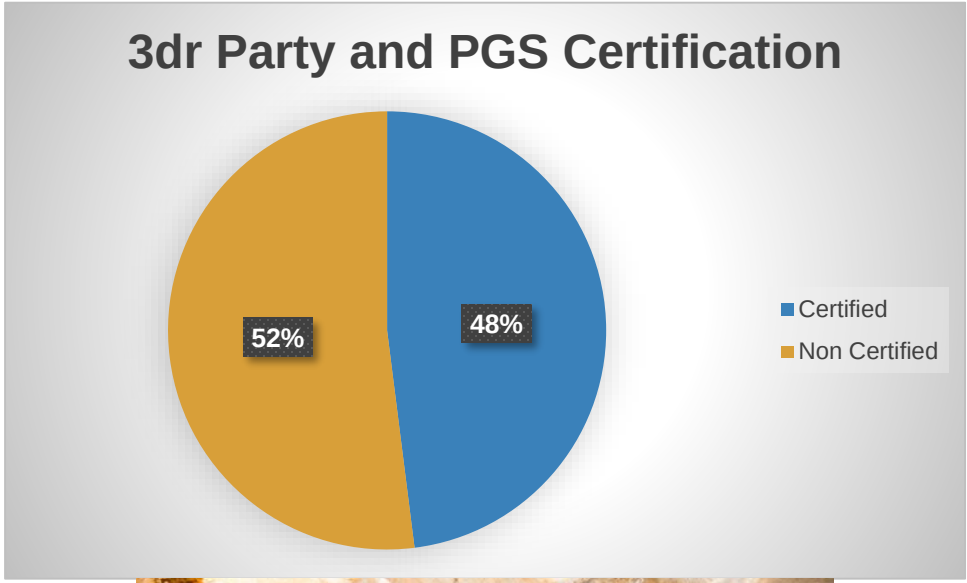
Across all the 24 practices, the proportion of producers practising either of them had increased or remained the same in 2017 compared to the proportion of producers who were practising in 2013

Practices promoted by EOA-I: farmers awareness of those practices prior and eventual adoption				
	Awareness	Practices 2013	Trained	Practices 2017
Benin	69%	58%	57%	55%
Ethiopia	11%	18%	34%	29%
Kenya	29%	26%	33%	31%
Mali	46%			
Nigeria	43%	33%	26%	35%
Senegal	31%	26%	33%	31%
Tanzania	40%	37%	63%	50%
Uganda	26%	26%	40%	29%
Overall	34%	30%	40%	34%

35% of the farmers reported to have received training on at least one of the practices promoted by EOA-I.

Certified Organic Producers through EOA-I

- Overall 48% of the producers or their producer groups have been certified as organic producers. Nigeria and Benin recorded the highest percentage of 100% and 97% respectively. Mali, Tanzania and Senegal recorded low percentages of certified organic producers of 17%, 23%, and 38% respectively.



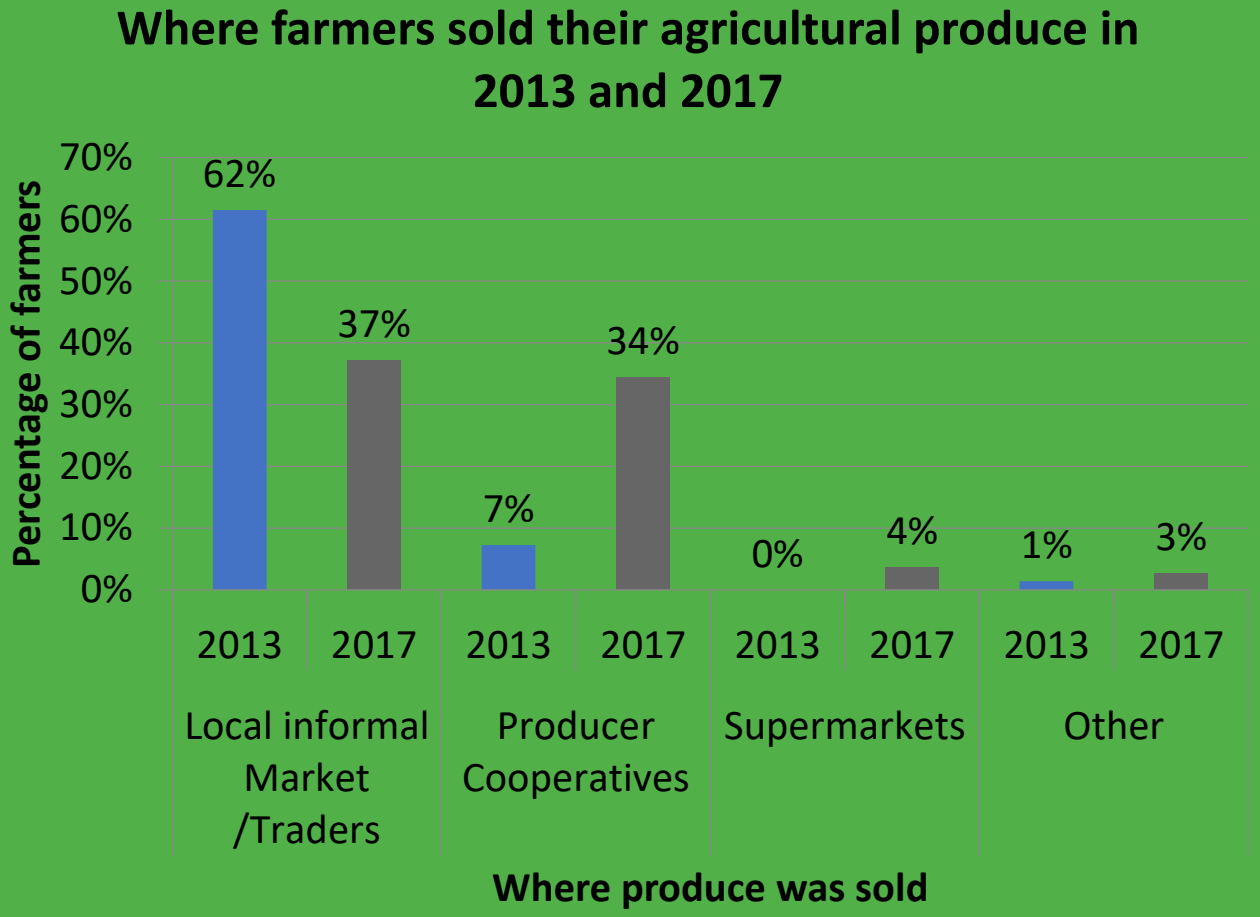
EnCert ORGANIC

ECO CERT®

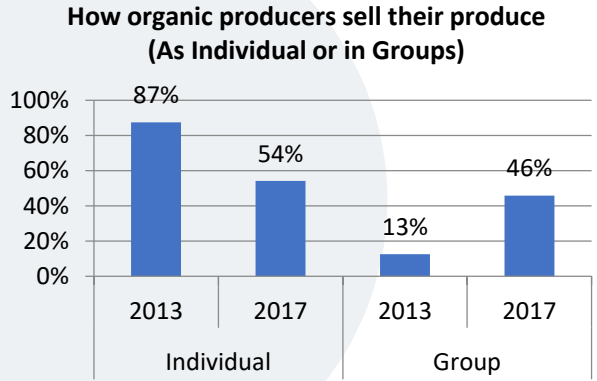
KILIMOHAI ORGANIC

Target Markets

Between 2013 and 2017 a drastic change in Market preference where producers shifted from Local direct markets to Marketing their products through Cooperatives



In 2017, overall 91% of certified producers were aware of organic markets. Compared to 2013 where only 30% were aware



Markets

A shift of 33% from Individual to Group sell s was recorded between 2013 and 2017 through EOA-I interventions

Reasons why Group sells were popular:

- Higher price
- Higher bargaining power
- More stable markets from economies of scale
- Other benefits such as social capital, peer learning, and group support

EOA Pillar Contribution to Project Outcomes

	Percentage increased production	Percentage change Productivity yield per unit area	Food security	Nutrition	Incomes (from organic farming) increased by 10%+	Welfare improvement (quality of life)
Benin	44%	-12%	100%	100.0%	44.7%	90%
Ethiopia	95%	50%	100%	96.4%	100.0%	74%
Kenya	102%	78%	96%	96.4%	76.8%	44%
Mali	98%	76%	98%	96.8%	75.0%	96%
Nigeria	105%	-5%	96%	96.4%	64.3%	64%
Senegal	57%	7%	96%	92.9%	78.6%	79%
Tanzania	17%	-16%	87%	83.9%	77.4%	75%
Uganda	94%	48%	96%	95.9%	37.2%	72%
TOTAL	83%	37%	97%	96.1%	58.4%	73%

- Effective, efficient and strong governance and management systems, are critical requirements for successful scale up of EOA and sustainability.
- Beyond the resources, the sustainability of the uptake of EOA practices and technologies and changes at farmer level, will only be sustained by a well though-out market system approach..
- Organic famers face serious competition from in-organic farmers and also proponents of chemical inputs.
- The “game changer” for EOA success and stability at country level is a functional CLO.
- Sourcing and harmonization of streams of funding, coordination, monitoring and evaluation is still key for impact creation and scale-up

Recommendations

- Creating Opportunities for Scaling Up through Production Market Systems
- Focusing on a Value Chain Development Approach
- Develop and Employ a Robust Monitoring & Evaluation Framework
- Motivating Funding Support Arrangements
- Employing Deliberate Efforts to Involve Women, Youth & Vulnerable Groups

Future Prospects of EOA Initiative

- More funding support to mainstream EOA structures through GIZ/BMZ Knowledge Hub Project, Global Advocacy Project by Swedish Society for Nature Conservation(SSNC) and continued support by Swiss Agency for Cooperation(SDC) through Phase 2.

- Rolling out Market System Development Approaches which embrace business development support infrastructure, value chain analysis and making markets work for the poor (M4P).

Future Prospects of EOA Initiative

- Mainstreaming of EOA into CAADP PP Biennial reporting.
- Geographical expansion and outreach through mapping out other EOA related projects across Africa for synergies and partnership building.
- Exploring of investment and funding mechanisms for EOA implementation on the continent.
- Stronger Partners in governance and coordination through continuous capacity building and rapid due diligence assessment.

Thanks!

ANY QUESTIONS?

You can find me at

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- vwambua@biovisionafrica.org

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Confédération suisse
Confederazione Svizzera
Confederaziun svizra

Swiss Agency for Development and Cooperation SDC

Swedish Society for Nature Conservation

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