

AFRICAN CENTRE OF
EXCELLENCE
IN AGRO-ECOLOGY AND
LIVELIHOOD SYSTEMS



(ACALISE)

Progress Report, up to December 2017

February 2018

Introduction

This progress report has been made following our workplan. It is to be noted that there some few adjustments in the workplan for various reasons as highlighted in the attached revised Workplan (attached as a separate document). The report provides the documentation of the extent to which the project objectives have been achieved from the time we began in August 2016 to December 2017. It is to be noted that at ACALISE we began operations in academic year 2016/17 despite the delay for Ugandan ACEs to be declared effective.

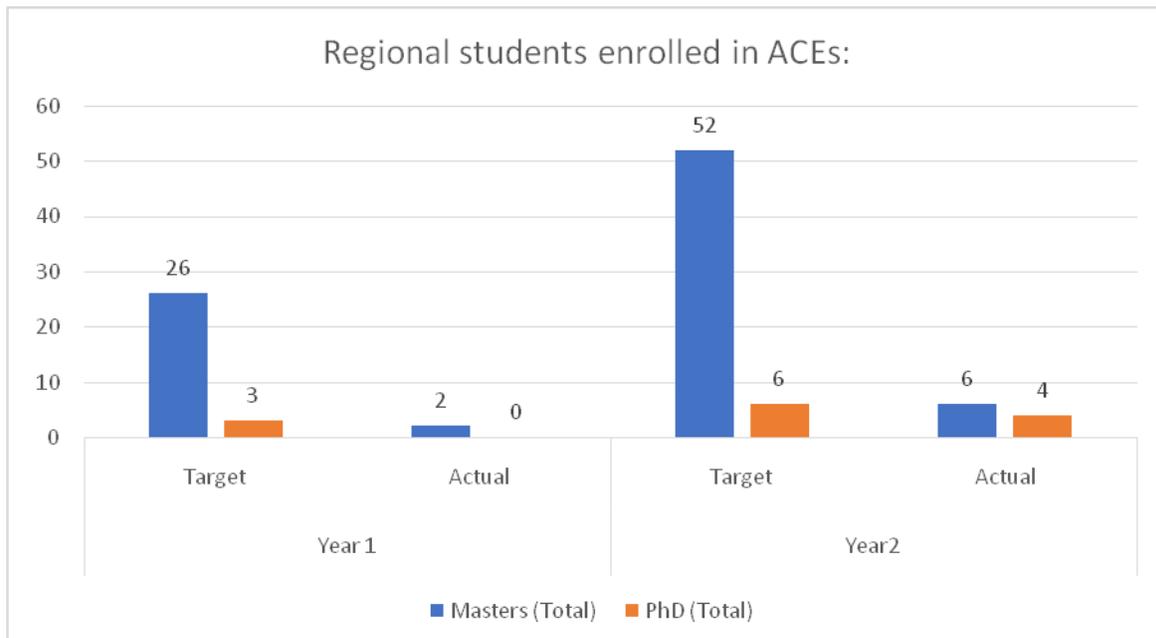
The summarized report provides highlights on each of the key indicators in the M&E sheet and other key activities carried out at ACALISE.

1. STUDENTS ENROLMENT

The Centre managed to recruit MSc and PhD students. This was in the areas of Monitoring & Evaluation, Development Economics and Agro-ecology for the MScs, while the PhD program focuses on Agro-ecology & food systems. In the course of year 2017 another MSc programme, namely MSc Bioethics was approved and students recruited.

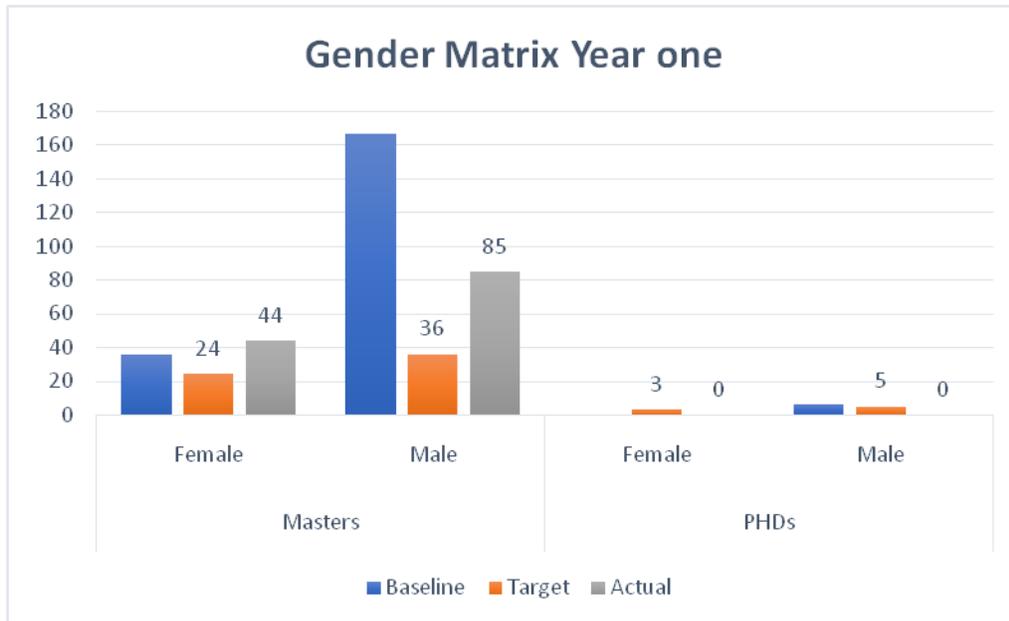
The graphs below indicate the areas of progress.

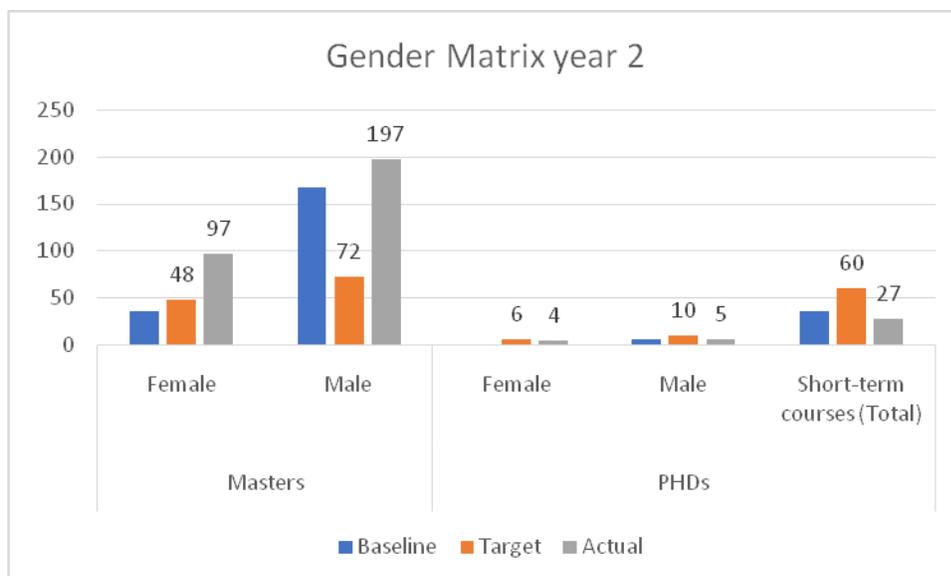
The programmes have not yet attracted substantial regional students (apart from the PhD programme) as envisaged. In the first year of operation there was no PHD student enrolled from the region but this improved in the second year where 4 students (three of whom females) were enrolled although this is still below the targeted number of 6. See Annex 3)



The Gender Matrix below shows that for Master’s program, the university was able to reach past the targeted numbers (twice as targeted). There are 44 masters female students for year one compared to the targeted 24 while in year 2 there are 97 female students as opposed to the targeted 48. This is the same with the male student who are 85 as opposed to the targeted 36 for year 1 and 197 as opposed to 72 for year two. By and large in year two the university doubled its target for the master’s program.

For the PHD program, both in year 1 and year 2 the target numbers have not been met however there has been improvement from the first year as 4 PHDs were registered for female students as compared to none in year 1.





Way forward on unmet targets

- Female candidates have been encouraged to enroll
- The program is going to advertise across the region so as to meet the regional targets

2. MoUs FOR PARTNERSHIPS

The University has signed partnerships with Civil Society (PELUM), Private Sector (RUCID), Industry (CIDE, BOBO ECO-FARM), and other institutions (NAGRIC-KVC). The formal function of signing MoUs with Higher Education institutions will take place on the day of official inauguration of the Centre in March 2018.

Participatory Ecological Land Use Management (PELUM) as a consortium of several organizations that work directly with people on ecological land use and management, is carrying out the agroecology and livelihood skills gap analysis to inform the review of existing curricula and development of new curricula. The research began in November 2017 and is expected to be completed by end of February 2018. *A detailed summary of the research design is in the Annex 1*

Rural Community in Development (RUCID), as private sector that is directly engaged in production and community engagement for development will work with the Centre to enhance value addition and marketing of the products to enhance development.

Centre for Indigenous Development Efforts (CIDE) is partnering with the Centre to provide the necessary soft skills training for the University’s staff (including Management and Administrators). The skills include, team building, customer care, courtesy, empathy, communication skills, transparency, self-control, time management, negotiation skills, problem solving, respect, stress

management, among others. The MoU was signed in November 2017 and the training began in January 2018.

National Genetic Resources Centre and Data Bank (NAGRIC) through one of its satellite centres, namely, **Kyengera Veterinary Services and Development Consultancy (KVC)** is partnering with Uganda Martyrs University to revamp the Farm for research and development. KVC will handle pasturing, paddocking, upgrading of the animal facilities, restocking of the farm, and provide technical advice on the handling of indigenous and exotic animal breeds. Activities are envisaged to begin in February 2018.

BOBO ECO-FARM

ACALISE in collaboration with BOBO Eco-Farm were able to write a successful funding proposal of USD 350000 to finance a Project that aims at developing rich livestock feeds from Soldier Larvae. The implementation of the project shall begin soon. *The funding proposal, Award letter, and Implementation Plan are available.*

3. ACCREDITED ACADEMIC PROGRAMMES

Two new programmes have been accredited by the National Council for Higher Education, namely the MSc in Bioethics, and the MSc in Microfinance. This is indeed a land mark achievement because according to our findings no University within East Africa has either of the programmes. Our biggest challenge regarding accreditation is the failure so far to accredit our programmes regional and internationally. We are soon to sign anMoU with RUFORUM to coordinate the regional accreditation of programmes, particularly the agriculture-related programmes.

4. FACULTY AND STUDENT EXCHANGES TO PROMOTE RESEARCH AND TEACHING

The staff and students exchanges are envisaged within the second/third years. The first year was dedicated to capacity building of our staff and class work by the students. Therefore we have not had any staff or students exchanges so far.

5. AMOUNT OF EXTERNALLY GENERATED REVENUE BY THE ACALISE

ACALISE has done tremendously well in this area. In this short period we have almost reached the five year target we had set. In the first year of operation we raised around USD 100,000 while our target was USD 50,000 and in year two we have raised close to USD 400,000 while our target was USD50,000. The funds were raise partly from students' tuition but above all from collaborations with various sponsors and writing funding proposals.

6. PUBLICATIONS

The first publications by our staff in collaboration with international editors are in the International Journal, *Collana di Sviluppo, Innovazione e Governance* in the volume entitled "*The Uganda Microinsurance Context*". Four research works were published and are

available online. The research project was carried out in collaboration with the Universities of La Sapienza (Italy), SacroCuore (Italy) and the Ministry of Foreign Affairs of Italy. For the second year, no publications have been released yet but staff and students have submitted manuscripts.

7. EVENTS THAT FOSTER PARTNERSHIPS

During this period we participated in 5 events with our partners to promote partnerships with Private Sector/industry. These include the 1) Academia-Productive Sector forum that was organized by IUCEA in October 2017 in Kigali, 2) the validation of tools of and participation in the research that analyses the agroecology and livelihood systems skill gaps; 3) the National launch of the ACE II project in Uganda in November 2017, 4) the participation in Regional Conference on Agroecology that was hosted by ACALISE and 5) the collaboration with BoBO Eco-farm to write a successful funding proposal to the Private Sector Foundation of Uganda/World Bank for the Black Soldier Larvae project as feeds for Livestock. *Detailed reports are available.*

8. HOSTING OF THE REGIONAL CONFERENCE ON AGROECOLOGY

ACALISE together with her partners hosted a regional conference Agroecology Conference in December 2017 at Kalangala island. The Conference had representatives from Africa and beyond including experts, students, political leaders, civil society, community, and local government. The French embassy contributed to the funding of the conference. One very significant resolution by the Conference was the launching of the process to begin an agroecology journal to be hosted by ACALISE. *The detailed report is being drafted.*

UGANDA MARTYRS UNIVERSITY NKOZI
AFRICAN CENTER FOR AGRO ECOLOGY & LIVELIHOOD SYSTEMS

BASELINE RESEARCH AND CASE STUDY

Questionnaire for Community Respondent Interviewees

I. INTRODUCTION

1. Research Title

“Benchmarking Agro ecology and Livelihood Skills Needs in Uganda”

2. Preview

Uganda Martyrs University is collaborating with PELUM Uganda to conduct a baseline analysis on the selected agricultural and livelihood systems and their interrelationship with agro ecology in Uganda. The baseline survey and analysis is for the ACALISE project whose objective is to streamline the production of high level and well motivated, ethically oriented critical mass of agro ecology and livelihood systems experts to impact on prevailing agricultural, nutritional and environmental challenges in the region.

3. Abstract

Agro ecology is the science and practice of a combination of both agriculture and ecosystem conservation focusing on productivity that offers a comprehensive business model and is mindful of the quality of the product, the taste and safety to the consumer to attain holistic sustainable human livelihood while taking care of the environment and mother earth to mitigate climate change or provide resilience options.

Agro ecology promotes use of natural resources, products and medicine instead of agrochemical pesticides, fertilizers or drugs

4. Research Design

The research interest is to generate agro ecology and livelihood skills’ deficits and training needs of three (3) thematic research components;

- Sustainable biodynamic agriculture and permaculture
- Environmental and renewable energy security for climate change resilience
- Sustainable agribusiness, livelihood case studies

5. Research Output

The baseline exercise will generate research interests for Masters and Ph D students, policy issues for public sector beneficiaries and training needs for the community beneficiaries so that at the project end the project will have attained the following research output;

- Knowledge, information, skills and innovations empowerment
- Sustainable agro ecological systems and practices
- Consumer bio-security
- Sustainable livelihood transformation
- Environmental and renewable energy security
- Sustainable Development Goals (SDG)

II. QUESTIONNAIRE FORMAT

1. Agriculture and Permaculture Questionnaire
 - i. General biodata
 - ii. Land system, right and farm size
 - iii. Population, household and family characteristics
 - iv. Gender equity
 - v. Support networking
 - vi. Sustainable agro ecology skills, information, communication and indigenous knowledge
 - Seed breeding and multiplication
 - Agro input supply chain
 - Soil fertility and water management
 - Productivity and production good management practices
 - Integrated pest and disease management (IPM)
 - Pre harvest practices
 - Soft skills retooling
 - Agro ecology digital retooling
2. Environmental and Renewable Energy Security Questionnaire
 - i. General biodata
 - ii. Land system, right and farm size
 - iii. Population, household and family characteristics
 - iv. Gender equity and support systems
 - v. Environmental information, skills, communication and indigenous knowledge
 - Tree nursery and seedling practices
 - Sustainable wetlands utilization
 - Agroforestry
 - Afforestation and reforestation
 - Wildlife conservation
 - Renewable energy
 - Digital applications
3. Sustainable Entrepreneurship and livelihood Questionnaires
 - i. General biodata
 - ii. Land system, right and farm size
 - iii. Population, household and family characteristics

- iv. Gender equity and support systems
- v. Environmental information, skills, communication and indigenous knowledge
 - Cooperative and social businesses
 - Post harvest management
 - Community and household income security
 - Community and household food security
 - Child and HIV/AIDS nutritional security
 - Youth employment
 - Gender and women asset securitization
 - Sustainable Development Goals
 - Case studies

III. THEMATIC RESEARCH PROBLEMS AND INTERESTS

Research Sub Region	Research District	Research Thematic Interests			Lead Research Investigator or Service Center
		Agriculture and Permaculture	Environmental and Climate Energy Security	Sustainable & Livelihood Economy	
1. Karomoja	Moroto	Water for production	N/A	N/A	
2. Acholi	Gulu	Coffee adaptability	N/A	Cross border business	
	Kitgum	Post war livestock restocking	N/A	N/A	
3. Lango	Lira	Sustainable wetland utilization	N/A	N/A	UMU Ngetta
4. Teso	Soroti	Oxen mechanization innovations	N/A	N/A	
5. West Nile	Nebbi	Tobacco biocides products and IPM	N/A	N/A	
	Moyo	N/A	N/A	Sustainable refugee and host community livelihood empowerment	
6. Albertine	Masindi	N/A	N/A	Grain post harvest cocoon storage	
	Hoima	N/A	Oil and gas environmental compensatory interventions	N/A	
7. Rift valley	Kasese	Organic cotton value chain	N/A	N/A	UMU Fort Portal
	Bundibugyo	Cocoa value chain improvement	N/A	N/A	
	Kamwenge	N/A	N/A	Sustainable refugee and host	UMU Fort Portal

				community livelihood empowerment	
8. Elgon	Bududa	N/A	Landslides and reforestation	N/A	UMU Mbale
	Kapchorwa	Wheat and barley productivity value chain improvement	N/A	N/A	
	Tororo	N/A	Kakungulu Agroforestry value chain	N/A	
9. Busoga	Iganga	Cereal – sugarcane – paddy rice value chains	N/A	N/A	EADEN Iganga
	Mayuge	N/A	Charcoal deforestation and sugarcane	N/A	
10. North Buganda	Kayunga	N/A	Mechanization and irrigation	N/A	AGRIN
	Luwero	N/A	Water for production irrigation and storm harvesting	Agrinfo Resource Epicenter	AGRIN
11. West Buganda	Mityana	N/A	Lake Wamala reforestation, soil testing, municipal waste fertilizer recycling	N/A	RUCID and CIDE
	Kiboga	N/A	Energy efficient charcoal kilns	Youth employment in diary and export horticulture value chains	
	Mpigi	Seed multiplication, ginger value chain	N/A	Agrinfo Resource	AGRIN
12. South Buganda	Masaka	Fishing control alternative cage aquaculture	N/A	N/A	UMU Masaka, MADDO, Kamenyamiggo ZARDI
	Kalangala	N/A	Oil palm deforestation and pollution	N/A	UMU, Kalangala DFA
13. Central Buganda	Mukono	N/A	N/A	Agricultural value addition, HIV/AIDS nutritional management	
	Wakiso	Modified atmosphere growth and irrigation	N/A	Green building, renewable energy, flower biosafety	Wakiso DFA, Kulika
	Kampala	N/A	N/A	Agro inputs supply chain, ethics, food insecurity, consumer	Afrasia Polytechnic Makerere West, housing cooperatives

				education, slum livelihood transformation	
14. Ankole	Busenyi	Coffee – banana value addition	N/A	N/A	
	Kiruhura	N/A	Lake Mbuero ecosystem conservation and water for production	N/A	
15. Kigezi	Kabale	Horticulture – apiary synergic system	N/A	N/A	UMU Kabale

IV. AGRO ECOLOGY AND LIVELIHOOD SYSTEMS RESEARCH TRIANGULATION

Sub Region	Formative Soil Class	Agro ecology Zone		Farming Systems	Livelihood Economy	
					Crop Enterprises	Livestock Enterprises
1. Karamoja	Vertisols (Shallow or very sandy or gravelly soils)	North eastern semiarid		Pastoral and some annual crops	Root tubers, sorghum, millet	Beef cattle, sheep, camel, wildlife
2. Acholi	Histosol, regonosol	North Western savannah		Annual cropping and cattle northern system	Maize, simsim, sunflower, cassava	Poultry, goats, aquaculture
	Luisols	North Western savannah		Annual cropping and cattle northern system	Rice, grains annual crops	Poultry, goats, aquaculture
3. Lango	Lepticarenosols	North eastern savannah		Annual cropping and cattle northern system	Maize, beans, ginger	Poultry, piggery, goats, aquaculture
4. Teso	Lepticarenosols	North eastern savannah		The Teso system annual cropping and cattle	Fruits, citrus, cassava, vegetables	Cattle, goat, piggery, fish
5. West Nile	Leptosols (Shallow or very sandy or gravelly soils)	North western savannah		Annual cropping and cattle	Root tubers, cassava, tobacco, peanuts,	Cattle, apiary
	Leptosols (Shallow or very sandy or gravelly soils)	Para savannah		Annual cropping and cattle	Root tubers, tobacco, Arabica coffee	Poultry, apiary
6. Albertine	Red clay loams	Para savannah		Banana – millet – cotton system	Cereals, pulses, field pea, millet, forestry	Poultry, goats, cage aquaculture, wildlife
	Agricferrasols	Western savannah grasslands		Western banana coffee and cattle system	Annual crops, millet, cassava	Poultry, cattle, piggery
7. Rift valley	LuvicFerrasols, Nitosols	Western savannah grasslands		Western banana coffee and cattle system	Annual crops, maize, cotton, field peas	Goats, poultry, wildlife
	Vertisols	Western savannah grasslands		Western banana coffee and cattle system	Maize, tea	Piggery, dairy cattle
	Agricferralsols	Highland range land		Medium altitude intensive banana coffee system	Cocoa, coffee,	Dairy, fishing
8. Mount Elgon	LuisolsArenosols	Kyoga plains		Banana, cotton, millet, system	Millet, cassava, carrot	Goats, chicken
	Nitosols	Highlands		Montane	Cereal, wheat,	Goat

		ranges		system	barley	
	Nitosols	Highlands ranges		Medium altitude intensive banana – coffee system	Banana, Arabica coffee, cereal, potatoes	Dairy, goats, chicken
9. Busoga	Arenosols	Kyoga plains		Lakeshore intensive banana – coffee	cereal, rice, peanuts, beans, sugarcane, hibiscus	Dairy, goats, chicken
	LuvicFerralsols	Lake Victoria Crescent		Lakeshore intensive banana – coffee	Coffee, rice, sugarcane, forestry	Fishing
10. North Buganda	Lepticarenosol, vertisols	Kyoga plains		Banana – millet – cotton system	Cereals, pineapples, banana, coffee, cocoa	Beef cattle, chicken, fishing
	Lepticarenosol, vertisols	Pastoral rangelands		Banana – millet – cotton system	Cereals, cassava, maize, millet	Beef and dairy
11. West Buganda	Vertisols	Western savannah grasslands		Western – banana – coffee – cattle system	Coffee, cereals, beans, pulses, ginger	Dairy, goats, fish
	Lepticarenosol,	Western savannah grasslands		Western – banana – coffee – cattle system	Coffee, banana, maize, beans	Dairy, beef
	LuxicFerralsols	Victoria Crescent		Lakeshore intensive banana – coffee	Root tubers, ginger, tomato, vegetables	Piggery, poultry
12. South Buganda	LuxicFerralsols	Victoria Crescent		Lakeshore intensive banana – coffee	Coffee, banana, pineapple, watermelon, horticulture, tomato, field peas	Dairy, goats, piggery
	LuxicFerralsols	Victoria Crescent		Lakeshore intensive banana – coffee	Forestry, oil palm	Fish, wildlife
13. Central Buganda	Nitosols	Victoria Crescent		Lakeshore intensive banana – coffee	Coffee, banana, horticulture	Dairy, piggery, poultry
	Nitosols	Victoria Crescent		Lakeshore intensive banana – coffee	Peri urban horticulture, vegetables	Piggery, poultry, agribusiness
	LuxicFerralsols	Victoria Crescent		Urban agriculture	Horticulture, agribusiness	Poultry, value addition
14. Ankole	DystricRegasols, Luvmsols	South western farmlands		Western coffee – banana – cattle system	Coffee, banana, tea, horticulture, beans, peas	Dairy, wildlife
	Ferralsols	Pastoral rangelands		Pastoral and some annual crop system	Annual crops, millet	Beef and dairy
15. Kigezi	Planosols	Highland ranges		Montane system	Horticulture, potatoes, beans,	Dairy, piggery,

					field peas, onions, forestry	apiary, wildlife
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ANNEX 2

An attachment of the revised workplan