



ACCELERATE

YOUTH EDUCATIONAL EXCHANGE
IN SUSTAINABLE AGRIBUSINESS
& INNOVATION

UGANDA, 16-24 AUGUST 2017

A workshop & exploration of Educational
North-South Collaborations in
Agribusiness Development

MAKERERE UNIVERSITY 17-18 AUGUST 2017





Swedish University of
Agricultural Sciences



OVERVIEW

Agriculture is in urgent need of intensification to be able to feed a growing world population. However, intensification has often shown to be at odds with sustainability due to an increased reliance on synthetic chemical farm inputs that lead to unsustainable use and degradation of ecosystems, which ultimately affects human and animal health. The effects are possibly most strongly felt in Africa, which is grappling with both the largest rate of increase in human population on a continent and at the same time experiencing the largest yield gaps exacerbated by climate change.

The challenge is formidable: a harmonious agricultural transformation eyeing both the increased production and ecological and social sustainability. But so are the benefits: economic growth & poverty reduction across the board, employment opportunities for youth, women and the elderly, and sustainable exploitation to preserve and restore natural resources for generations to come.

How to forge a change? The search for innovative solutions to sustainable intensification and transformation of agriculture through innovations and entrepreneurship is critical and requires speed, scale and concerted efforts from a range of stakeholders and actors; public and private. Above all success will to a large extent depend on the human resource engaging in the sector and the ability for universities to churn out graduates who are innovative and capable of translating their education into business (agripreneurship).

KEY IN DRIVING CHANGE & INNOVATION IS YOUTH.

Young people readily adopt new ideas and technologies and drive innovation. Sadly though, worldwide, youth engagement in rural areas is low, which is reflected in the associations the word 'rural' evokes: underdeveloped, backwards, limited job opportunities, and generally considered 'uncool'. This negative connotation is amplified in African smallholder farming, which is economically barely sustainable, is poorly connected to markets, information and capital, and has concomitantly a low social status.

HOW CAN WE REVERSE THE TREND, AND KEEP OUR INNOVATORS AND ENTREPRENEURS IN AREAS WHERE THEY ARE MUCH NEEDED.

This begs the question of how can we develop opportunities for youth in rural farming communities and sustainably increase agricultural production, develop agricultural value chains and transform agriculture as a catalyst for sustainable development.

For this to happen, young people must be at the center! So the question is how do we increase youth engagement and opportunities in agriculture and thereby transform agriculture, and close the yield gap. Whereas the current situation leaves much to be desired, there are also opportunities that could bolster youth engagement, particularly in Africa. For instance, African agriculture is not so gridlocked as those in the northern hemisphere, the flipside of underdeveloped value chains and markets is potential for growth and larger profits; yield gaps imply yield opportunities; stagnant practices offer openings for innovators and innovations; and a rapid population growth imply growing markets.

Identification of opportunities and their challenges, together with technological, economic, educational, social and policy drivers are needed to backstop rural-to-urban youth hemorrhage and support youth involvement in agriculture. The importance of focusing on youth in developing rural communities, closing the yield gap and propelling sustainable intensification is well recognized, and is reflected in the many youth agripreneur initiatives in the South. While youth agripreneurship is a buzzword in developing countries, North-South linkage between educational programs is limited. Such links would increase the visibility and the attractiveness of such programs for young people, and also put agriculture and agribusiness in a global perspective. Agriculture is increasingly a global business and early linkage through education would support that. Educational links would also give the opportunity to support sustainability thinking in agribusiness development.

Here we aim to develop such collaborative educational interactions between agripreneurship programs south of the Sahara and agricultural programs in the north spearheaded by SLU. Such global links will increase the visibility and attractiveness of educational programs in farming and agribusiness and provide an opportunity to infuse sustainability thinking within these programs. Agriculture in the 21st century will be increasingly knowledge intensive in order to find creative and locally tailored solutions to the increasingly complex issues we are confronted with today. This requires more than teaching the fundamentals of current local agricultural practices. It demands students, and teachers, to be put out of their comfort zone and being exposed to different ideas, concepts and also settings, such that education prepares students with the vision, skills and creativity to contribute to sustainable intensification and foresee and overcome today and tomorrow's challenges in agriculture. We believe that global inter-linkage and mass collaboration is a fundamental part of such blended teaching.

Below we present the upcoming exchange at Makerere University where we aim at creating a platform for learning alliances aimed at sparking off a North-South linkage in education and agribusiness development.

A group of farm management students and faculty from the Swedish University of Agricultural Sciences will visit Uganda to meet up with students and faculty at the universities in Uganda and visit agripreneurial programs in the country, including IITA's Youth Agripreneurship program. In addition, a workshop on Youth, Education and Sustainable Agribusiness Development will be held, with participation of a diverse group of stakeholders. This visit is in response to the very successful visit from a workshop on Youth, Agriculture and the Sustainable Development Goals, that was held in May 2017 at Sida in Stockholm.

WORKSHOP

ACCELERATING YOUTH,
EDUCATION & INNOVATION IN
AGRIBUSINESS DEVELOPMENT;

17-18 August 2017

MAKERERE UNIVERSITY

The upcoming exchange visit in Uganda and workshop at Makerere University, together with efforts that focus on youth, education, innovation and sustainable agribusiness, serves many goals directly and indirectly, including: food production in areas where it is critically needed, opportunities for youth in rural areas, increasing entrepreneurship and agribusiness opportunities in agriculture, equitable agribusinesses from the grassroots, a new generation of farmers who embrace knowledge-intensive and sustainable transformation, harness collaborative innovation as well as knowledge and technology transfer, increasing global perspectives in our farm management and agribusiness training programs.

AIMS

THIS PARTICULAR EXCHANGE VISIT AND WORKSHOP AIMS TO:

- ✔ Increase the attractiveness and interest in agricultural programs worldwide
- ✔ Provide a platform for interlinking courses between programs and bidirectional exchange between programs
- ✔ Identify knowledge gaps in the formal educational and informal circuits (short courses, online resources) that are pivotal in agribusiness skill development.
- ✔ Permeate agricultural and agribusiness programs with a global and sustainability perspective
- ✔ Facilitate platforms and harness the potential for collaborative innovation and blended learning
- ✔ Build new and future agribusiness networks, harness mass collaboration and increase future equitable trade opportunities with emphasis on organic products and services along the value chain.

The engagements are planned for 16-25 of August 2017 and aims to identify academic partnerships, programs and possibilities for exchange. It is the follow up of a workshop on Youth in Agriculture (23-24 Jan, Alnarp) by several university teachers and representatives from private institutions from Uganda, Kenya and Somaliland, as well as a visit in 2015 of group of 4 LMP students, 2 teachers, and SLU Global to the International Institute for Tropical Agriculture, IITA. It also follows a SIANI workshop held at Sida on the 8th of May on Youth, Agripreneurship and the Sustainability Goals.

In addition to the direct exchange and field trip, we found substantial interest by all stakeholders in a formal workshop on agribusiness development, and thus leveraged the opportunity to create a workshop for development of ideas for equitable and sustainable agribusiness. This workshop will help in creating a platform from academia to institutes and agribusinesses, and help identify what are the main knowledge gaps for developing agribusinesses and how education, either formal or informal, can be translated into agri-business for social economic development.

See below for more details and a schedule of the workshop.

While some of the goals are long term, some of which very concrete and direct, including;

- ✔ A report detailing the study visit, the various universities and institutes visited, their programs, potential courses and modes for exchange, and 'instruments' (level, types, funding) for exchange.
- ✔ A document to be written by the students and teachers that list exchange possibilities and routes for financing (travel stipends, teacher exchange, course point conversion etc). This will be used for garnering support from relevant institutions.
- ✔ A presentation of the visit, experiences and possibilities by the participants to first year students (September 2017), and a presentation at the upcoming Agri4D conference (<http://www.siani.se/sv/topic/agri4d, September 2017>)

- ✔ Submission of two Linnaeus Palme Exchange exploratory phase grants (due October) between the Swedish University of Agricultural Sciences and Makerere University, one in Biosystems and Technology, the other in Economics and Business. A formal exchange grant would support international collaboration in agripreneurship and make it a tangible part of the programs.
- ✔ A document detailing opportunities as well as knowledge gaps in agribusiness development. These will flow from the development of agribusiness proposals and will be very important in identification of current and future targets in agribusiness education for all stakeholders involved.
- ✔ An award for the best students' innovative idea
- ✔ Come up with a support plan for incubating all the students' ideas and/or prototypes by especially harnessing collaborations with innovation hubs like the Innovation Village to provide incubation and accelerator support.
- ✔ Launch of the student innovation platform at Makerere University
- ✔ A documentary of the exchange and engagements: a team of documentary makers will be involved in recording using audio/video/photography the workshop and the fieldtrip and make a short documentary of it that will be used by all stakeholders to galvanize more support and collaborations.
- ✔ Global Challenges University Alliance, GCUA. This academic alliance aims at bringing together top universities from around the globe to discuss issues on food security, bio-energy, and sustainable urban development and climate action. During the workshop we will get partners to discuss an upcoming event of GCUA (mid 2018) on youth and agriculture.
<http://www.slu.se/en/collaboration/international/global-challenges-university-alliance/>

EXPECTED OUTCOMES

SLU is heavily invested in internationalization of all of their educational programs. The Farm Management Program (LantMästare Program) in Alnarp is limited regarding international contacts and opportunities. Yet, this program is very well positioned for engaging in the 'the youth in agriculture' hype in particularly the global South. The aim is that we develop links with universities and other partners such as IITA and RUFORUM, and increase the visibility and opportunities of this program to stakeholders.

SLU and MAK also hope that through the linkages and collaborations in Africa, students will benefit by getting a better scope and understanding of larger global issues, such as global development and the sustainable development goals, as well as getting a better feel for the global issues in agriculture and how we together need to contribute to solving these.

Furthermore, it is important to realize that Uganda is a starting point. There are many more possibilities and these are certainly not limited. Interest by the east African regional universities to change their approach to learning that emphasizes translation of science into tangible sellable products, it is appropriate to initiate a platform for innovation and entrepreneurship.

INSTITUTIONS

SLU GLOBAL: SLU Global implements the strategy for global development and poverty alleviation of the Swedish University of Agricultural Sciences (SLU). As a University wide platform, it coordinates and supports the university's research and education aiming at developing the agricultural sector in low income countries. Over the last year, SLU Global has developed and supported several initiatives and workshops on youth in agriculture. www.slu.se/slu-global

MAKERERE UNIVERSITY.

Established in 1922 as a humble technical school, Makerere University is one of the oldest and most prestigious Universities in Africa. The University's main mandate is research, training and extension. MAK is an important player for research collaborations in Africa and a central convener of the regional sustainability network, which includes Gulu University, Uganda Martyrs University and RUCID, and the Open Sustainability Institute. www.mak.ac.ug

RUFORUM.

The Regional Universities Forum for Capacity Building in Agriculture (RUFORUM) is a consortium of 66 African universities operating within 26 countries spanning the African continent. RUFORUM is coordinated by a Secretariat hosted by Makerere University in Kampala, Uganda. RUFORUM's mandate is to oversee graduate training and networks of specialization in the countries and universities where it works. 'We strongly believe in fostering innovative and responsive research; high performing and proactive graduates; a dynamic platform for university networking; advocacy for agricultural higher education; and university transformation for relevance'. This platform hopes to leverage RUFORUM's collaborative pedigree to open up other opportunities for development of North-South links. (www.ruforum.org)

GULU UNIVERSITY.

Gulu University is mandated to provide access to higher education, research and conduct quality professional training for the delivery of appropriate services directed towards community transformation and conservation of biodiversity. The University has, in collaboration with Egerton University (Kenya), established an agripreneurs program that focuses on equipping students with practical entrepreneurial skills. It would be intriguing to learn from their programs and see how we could create links between them. www.gu.ac.ug

UGANDA MARTYRS UNIVERSITY.

This university has been a long-term collaborator for several groups in our university, including on sustainability and agroecology. They are also part of the sustainability network in Uganda and keen on supporting sustainable agribusiness development through education. We will explore their programs, and fortify existing links, and probe for possible new interactions in terms of student exchange and course work. (www.umu.ac.ug/)

EGERTON UNIVERSITY, KENYA

An important partner as they have an agribusiness management and agricultural economics program, which parallels LMP program at SLU. Egerton has entrepreneurship programs at university and regionally (including hands-on how to start a farming business) - strengthening universities capacity to enhance competitiveness of agribusiness in East and West Africa. (www.egerton.ac.ke)

RURAL COMMUNITY IN DEVELOPMENT (RUCID):

RUCID is an organic agriculture and agroecology training school located in Mityana District. RUCID's primary aim is to work with smallholder farmers so that they can improve and sustain their agricultural production, household income, environmental protection, health issues, nutrition, and women in development. (www.rucid.org)

ISTVS.

The Intergovernmental Authority on Development (www.igad.int), and particularly their IGAD Sheikh Technical Veterinary School in Somaliland (www.stvs-edu.org), is a partner in exploring possible linkage both within Africa as well as to Sweden.

IITA YOUTH AGRIPRENEURS IN UGANDA:

IITA will be visited as a follow up of the LMP visit in August 2015. We hope to extent our network of IITA agripreneurs by linking to those in Uganda. The pre-existing strong research links with IITA will help support possible exchange projects for students. In addition, as the IYA are not formally tied to an educational institute, we can identify knowledge gaps for successful agripreneurship, and how to propel informal types of education into agripreneurship. The Agripreneurship Alliance has a particular interest in identifying and catalyzing these opportunities. <http://youthagripreneurs.org/home/locations-and-teams/>

NOGAMU:

The National Organic Agriculture Movement of Uganda (NOGAMU) is an umbrella organization which unites producers, processors, exporters, NGOs and other institutions and organizations that are involved in the promotion and development of the organic sector in Uganda. The organization's main mandate is to build capacity and promote Training, Research, Extension and Education in organic agriculture in Uganda and to promote Local and Export Marketing of organic products from Uganda.

ECOLOGICAL ORGANIC AGRICULTURE INITIATIVE (EOA-I):

The EOA-I is an initiative of the African Union Commission mandated to mainstream organic agriculture and agroecology into national policies in Sub Saharan Africa and promote sustainable agriculture practices. The initiative also supports collaborative innovation for sustainability through its information and communication pillar and has already been supporting student innovation initiatives at Makerere University.

THE OPEN SUSTAINABILITY INSTITUTE.

Open Sustainability is an independent think tank in Kampala committed to making resilience data and knowledge work for everyone! They have a particular focus on sustainable agriculture, ecosystems and sustainable cities. One of the ways they have been pursuing their broader mandate is through facilitating platforms for mass collaboration, democratizing skills like GIS through their OpenEd Fellowship and enabling collaborative student innovation in areas of sustainable agribusiness development.

www.opensustainability.org

THE AGRIPRENEURSHIP ALLIANCE:

This newly started collaboration championed by Nestle is a global partnership of businesses, universities, and development agencies who have the shared vision of thriving rural communities that are supported by successful youth-driven businesses within the local and global food systems. The Alliance also provides a platform for agripreneurship development through developing e-courses and resources for use by youth agripreneurs. Specifically on this engagement, the Agripreneurship Alliance will also provide a seed fund award of 500 USD for the best agribusiness proposal coming from the workshop. The Agripreneurship Alliance is headquartered in Switzerland. <http://www.theagripreneur.org>

TEACH A MAN TO FISH.

The organization aims at educating youth to create opportunities for youth and fight poverty. The organization is particularly interested in business development through education. They are aiming at providing the relevant education that bridges the gap between school and work. More info at <https://teachamantofish.org.uk/>

THE INNOVATION VILLAGE:

The Innovation Village is a community of emerging and seasoned innovators in Kampala that are working to bring 'ideas to life' to solve greater social-economic and environmental challenges. There are various labs at the Village but very relevant to this collaboration are the Agribusiness and Climate Action Labs, which are very focused on incubating agribusiness and environmental solutions. Also very relevant is the FinTech Lab, which helps innovators to connect to seed fund, technology and business development. <http://innovationvillage.co.ug>

BUSINESS DEVELOPMENT CENTER (BDC):

BDC focuses on training, coaching and incubation services for entrepreneurs to start and grow successful businesses. 'As entrepreneurs, we're all looking to grow our businesses and succeed'. Their flagship seminar, developing an entrepreneur in 10 weeks, blends the classroom lectures with fieldwork, making the training practical and useful. At the end of the training, each student comes out with a competitive business plan that is judged and evaluated by experts, allowing for greater potential of success. <http://bdcuganda.com>

SIDA recognizes the importance of the issue of Youth and Agriculture. In May 2017, Sida hosted a SIANI-SLU Global workshop on Youth. The Swedish Embassy and the Uganda representative of Sida are significant players for discussion around future development and exploring financial possibilities.

KEY SPEAKERS

DURING THE WORKSHOP:



PROF. KOSTAS
KARANTININIS

Kostas Karantininis is a professor at the Swedish University of Agricultural Sciences (SLU). He has previously been a professor at the Institute of Food and Resource Economics at University of Copenhagen. He is also a guest professor at the Wageningen University in the Netherlands. Kostas has unparalleled passion for youth and student agriprenueurship.



TEUN
DEKKER

Teun Dekker is an associate professor at the Swedish University of Agricultural Science (SLU) and now working for the University's international collaboration and development arm - SLU Global.



CHRISTINA
LUNNER KOLSTRUP

Christina Lunner Kolstrup is an Associate Professor at Swedish University of Agricultural Sciences (SLU). Her original competence is animal husbandry, however during the latest 17 years her competence within research and education has been focused on physical and psychosocial health, human safety, and sustainable livelihood among farming and rural populations both on national and international levels. She also has several years of experience as teacher and course leader on the Swedish Agroecology programme and collaborated with Uganda Martyrs University (UMU) and Mekelle University (MU in Ethiopia).



**GEORG
CARLSSON**

Georg is associate professor in agricultural science at SLU. His overall research interests lie within cropping systems ecology and are directed to 1) the diversification and multi-functionality of arable crops and cropping systems and 2) the increased use of legumes for sustainable food systems. His teaching in Agroecology and Agricultural and Rural Management includes lectures about crop production, symbiotic nitrogen fixation, nutrient cycling in cropping systems and roles of legumes for sustainable production systems.



**ASSOC. PROF.
FRED KABI**

Fred Kabi is an Associate Professor at Makerere University College of Agricultural and Environmental Sciences. He is a specialist of animal nutrition but has lately taken keen interest in blended learning where he focuses on trainings students that are job creators rather than job seekers. Through the collaborations with the Ecological Organic Agriculture Initiative and Open Sustainability Institute, Fred has lately been championing student collaborative innovation at Makerere University and believes that education should be aimed at transforming classroom knowledge into tangible, sellable products and services for the market.



**DR. MOSES
OSIRU**

Moses is the Deputy Executive Secretary at the Regional Universities Forum for Capacity Building in Agriculture (RUFORUM), a consortium of 66 universities in Africa fostering innovation and research for universities and community transformation.

He has previously worked as a senior scientist at ICRISAT based in Bamako, Mali.



CK JAPHETH

CK is the co-founder at the Innovation Village – a startup development and accelerator hub in Kampala. He is also a Talent manager at UMEME Ltd in Uganda. With a diverse background in Economics, Entrepreneurship education and now Human Resources and strategy my approach to talent trends is a healthy combination of commercial mindedness mixed with people synergies as key drivers for business excellence.

A certified Human Capital Strategist, I aid evidenced based human capital decisions through talentship and have led various talent acquisition campaigns, creation of talent pools and succession planning while building management & leadership competencies to impact on the bench strength. CK has an MBA in Strategic Planning from Edinburgh Business School in the UK and also a fellow of the Human Capital Institute.



**RONALD
MUWAMBI**

Mr. Muwambi is currently a Procurement Officer at the United Nations in Haiti. He has previously worked as a Contracts Management Officer at UN in Chad and Haiti and also worked in the construction industry in Dubai and the United Kingdom. Ronald possesses an MBA from Middlesex University and an LLM from University of Nottingham. He has lately picked up his passion for mentorship and delivering numerous talks with young people across the region.



**MOSES
ENGWAU OKUDU**

Moses Engwau is the Founder and CEO at Business Development Center (BDC) Uganda. Mr. Engwau specializes in Business Coaching and Mentoring, Entrepreneur training, and Micro Enterprise Development and argues that ‘9 out of 10 people in Africa who leave their homes for work every single day work in a small microenterprise’. He is also the CMS-Africa representative in Uganda.



STEPHEN
RWANGYEZI

Mr. Rwangyezi is the Founder & Executive Director of Ndere Troup, the leading cultural dance performance group in Uganda. He is a seasoned entrepreneur and passionate about helping young people with entrepreneurship mentorship. He will deliver a motivational talk to students and participants during the workshop.

PROGRAM SUMMARY 16-24 AUG

16 th	Visit to IITA, & the Innovation Village Kampala
17-18 th	Workshop at Makerere University
19 th	Kampala City Tour
20-24 th	Field Agri-preneurship Journeys to Western and South Western Uganda



LOCAL COORDINATORS'

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