

# AFRICALICS

**THE AFRICAN NETWORK FOR ECONOMICS OF LEARNING, INNOVATION,  
AND COMPETENCE BUILDING SYSTEMS**



## **7<sup>th</sup> AfricaLics PhD Academy 2021**

**Week 1: 26<sup>th</sup> - 30<sup>th</sup> July 2021**

**Week 2: 20<sup>th</sup> - 24<sup>th</sup> September 2021**

**Hosted by**

**University of Gondar, Ethiopia**

**Venue: Online via Zoom**

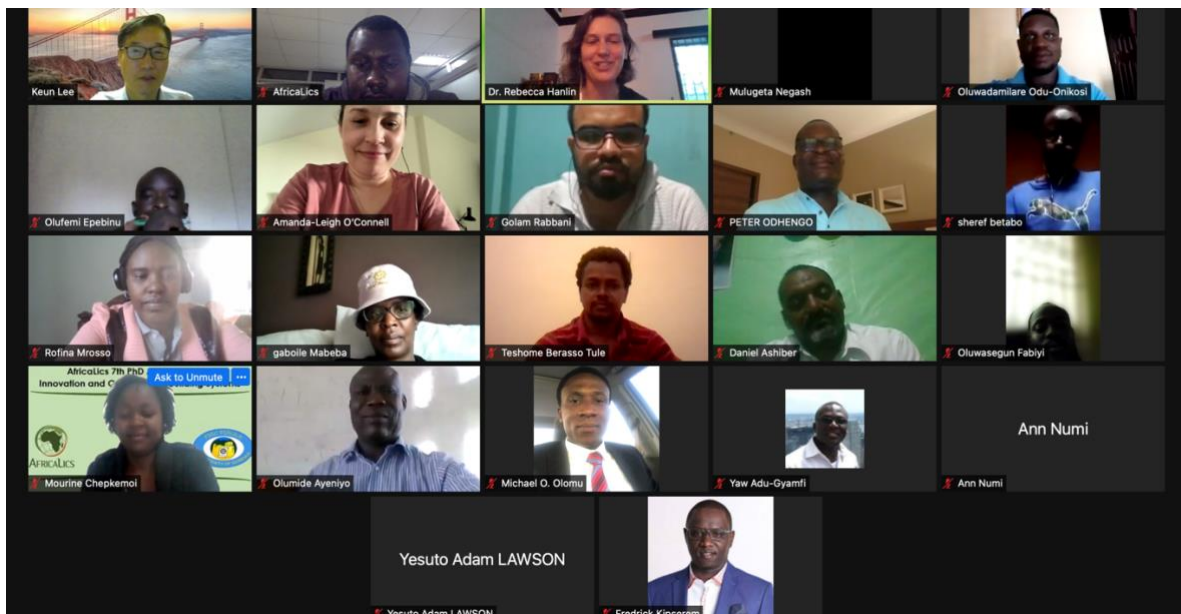
**Theme: Innovation and competence  
building system**

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## 1. Background

The African Network for the Economics of Learning, Innovation, and Competence Building Systems (AfricaLics) held its 7th PhD Academy online through for two weeks, online through zoom. The academy was divided into 2 sessions; week 1 (26<sup>th</sup> July - 30<sup>th</sup> July 2021) and week 2 (20<sup>th</sup> September - 24<sup>th</sup> September 2021). The purpose of the AfricaLics PhD Academies is to support the training of African Doctoral students engaged in research in the academic field of 'innovation and development'. This is a multidisciplinary field which includes researchers from a range of disciplines often studying innovation studies, the economics of innovation, innovation management, technology management, science and technology studies. Students and faculty working in the field of innovation and development and principally interested in how innovation relates to economic and social development in Africa are the main target group for the PhD Academy, but the Academy also aims to stimulate awareness of policy and management issues related to this burgeoning field of research.



*Participants at the 7<sup>th</sup> PhD Academy*

### 1.1 History of PhD Academies

The idea of conducting PhD Academies for African students studying in the field of innovation and development was conceived at all African seminar in Tanzania in March 2012. Further discussions between the AfricaLics Scientific Board (ASB) members and the Globelics Secretariat led to a decision to take the successful format of the Globelics PhD Academies that had been running for over 10 years and adapt it for the African context. Given that AfricaLics has grown as a network and the Secretariat has received substantial support, particularly financial support from the Swedish International Development Agency (Sida), the AfricaLics PhD Academies have grown in capacity and interdisciplinarity.

The 1st AfricaLics PhD Academy that took place in Nairobi, Kenya in December 2012. The academy was attended by 30 students and 21 instructors using the English medium. The 2<sup>nd</sup> AfricaLics PhD Academy took place in Algiers, Algeria in October 2013, 19 students and 11 instructors attended, using French medium predominately with some English translation

services provided and included an open symposium. Following delays due to insecurity in Kenya as well as a lack of initial applications, the third PhD Academy was postponed from 2014 to 2015. The 3<sup>rd</sup> PhD Academy took place in Mombasa, Kenya in March 2015 and it involved 28 students, 26 instructors using English medium and a public open symposium on innovation and development in Kenya with three additional external speakers - two by video conference - to an audience of 120 people. The 4<sup>th</sup> PhD Academy took place in Hammamet, Tunisia in March 2016 with 30 students attending. In June 2017, with 26 students in attendance, the 5<sup>th</sup> PhD Academy was held in Ile-Ife, Nigeria. Many of these often-featured open symposiums that included invited external speakers and the public in the audience for half or a full day.

The 6<sup>th</sup> AfricaLics PhD Academy took place in Morocco in 2018 which involved 30 students and included 15 facilitators from across Africa and was held using simultaneous translation between English and French. The event also included several opportunities for the students to interact with policymakers and other stakeholders through panel sessions and lectures.

The 7<sup>th</sup> AfricaLics PhD Academy hosted by the University of Gondar in Ethiopia in 2021 involved 19 students and included 18 facilitators from across Africa and 6 observer students was held online using Zoom platform and in English. The event also included several opportunities for the students to interact with policymakers and other stakeholders through panel sessions and lectures.

The PhD Academy is one of several activities undertaken by the AfricaLics Secretariat and the AfricaLics network to build research capacity in the region in innovation and development studies. These are part of a larger research capacity building programme funded by Sida which includes provision of research funding support, the development of new curricula and teaching programmes in the subject area as well as networking and dissemination activities for researchers in the region through events and workshops.

The main objective of AfricaLics is to promote the development of research capacity in Africa with strong links to users – including policy makers and private sector – through research training and research project organized support. One long-term aim is to enable Africa to become more self-reliant in studying, monitoring, and evaluating its innovation activities and systems for the betterment of society. The work of AfricaLics intends to complement the research and capacity building activities of other players in innovation studies both in the academic and policy arena.

## **1.2 Location of the Seventh AfricaLics PhD Academy**

The 7<sup>th</sup> AfricaLics PhD Academy was held online via Zoom. The event was jointly organized by University of Gondar, Ethiopia, with support from the AfricaLics Secretariat hosted at African Centre for Technology Studies (ACTS), Kenya. The academy was held online due to the ongoing COVID-19 pandemic. Two sessions were held over 2 separate weeks in July 2021 and September 2021.

## **2. Highlights of the Academy**

In July and September 2021 on Zoom platform, the 7<sup>th</sup> AfricaLics PhD Academy was held during two week-long week sessions. The programme of activities included group work, methods session, practical sessions, keynotes, lectures and a policy session.

The students were selected by the members of the AfricaLics Scientific Board and Secretariat through an open call for applications and a review of applications. The highlights of these events are outlined below.

### **2.1 Call for Applications and Review process**

A call for applications to the AfricaLics PhD Academy was advertised in June 2021 (see Appendix 1 for copy of the call for papers). A total of 30 applications were received and reviewed by a scientific review committee made up of members of the local organizing committee in Ethiopia, the AfricaLics Secretariat and Scientific Board. Each extended abstract was reviewed by two members of the committee and selected based on the scores received using the following criteria: relevance in terms of topic and content as well as quality, regional distribution and gender consideration.

A total of 19 students were selected following a review of all extended abstracts received. Due to unavoidable circumstances, only 18 out of the selected 19 students were able to attend the academy. The 18 students were from 7 countries: Ethiopia, Kenya, India, Uganda, Nigeria, South Africa and Tanzania. Appendix 3 provides a list of the students who participated.

They were joined by 6 observers, Masters and PhD students who showed interest in the field, but their PhD or master's thesis were not within innovation and development studies. Students with observer status attended the main lecture sessions across the first and second week of the academy but did not participate in the group work.

### **2.2. Pre-Academy Event**

A pre-academy event was held on 14<sup>th</sup> October 2020 - this event targeted Ethiopian PhD students. Ethiopia being the venue for the 7<sup>th</sup> PhD Academy, the aim was to sensitize Ethiopian PhD students on the upcoming academy. The objective of the pre-meeting was to increase the number of accepted applications from Ethiopian students. Specifically, because this is a burgeoning field on the continent, it was important that students who have a strong fit with the subject area were selected. This was to reduce the incidences of misunderstanding between students and their supervisors that could occur when a student becomes interested in bringing in new theory, concepts or methods into their PhD. The meeting was open to all interested PhD students and/or PhD supervisors from across Ethiopia (Pre-academy event programme is provided in Appendix 1)

### **2.3. The Academy Programme**

The two-week training programme was split into several sessions (Academy programme provided in Appendix 2). These included:

- **Practical sessions** - providing the student with training/ resources on project management and publishing
- **Policy sessions** - roundtable with manufacturers. In this session innovators from different countries in Africa discussed how and why they innovate, the challenges they face and where they need support from the academics.
- **Methods sessions** - providing students with training on key research methods needed to study this multidisciplinary area. This year we introduced a dedicated workshop on measuring innovation with the focus being new and alternative ways to measure innovation.



*Measuring innovation presentations by Dr. Glenda Kruss, Nazeem Mustapha, Yasser Buchana and Amy Kahn from HSRC, South Africa*

- **Paper presentations** - these are the core part of the academy and provide students the opportunity to receive feedback from colleagues and facilitators. Many of the students took the opportunity to work with facilitators outside of the formal sessions to get in-depth feedback on papers. These sessions consisted of up to 3 student presentations. Each presentation was expected to be no more than 15 minutes. After the 3 students have presented, a discussant provided feedback on the papers for up to 15 minutes. The remaining 15 minutes were available for open question and answer from all participants.
- **Group work** - students were expected to participate in group work during the month of August. The time requirement for this exercise was estimated at 16 hours to be conducted at times convenient to the students. The group work aimed to (a) provide students with a chance to get to know each other and extend their peer networks even at a distance in an informal but structured manner and (b) provide training in key research and presentation skills that are essential to life during and post-PhD.

Students were allocated into groups in week 1 and were expected to work in these groups to conduct the following activities:

### Other activities undertaken within academy

#### 1. Virtual scavenger hunt

At the end of the first week, full participants received an email with the link to a quiz site. The quiz provided the first task. Students were expected to research the answer to the task and input the answer into the online quiz form. Each time they input an answer they were able to unlock the next task. There were approximately six (6) tasks to complete.

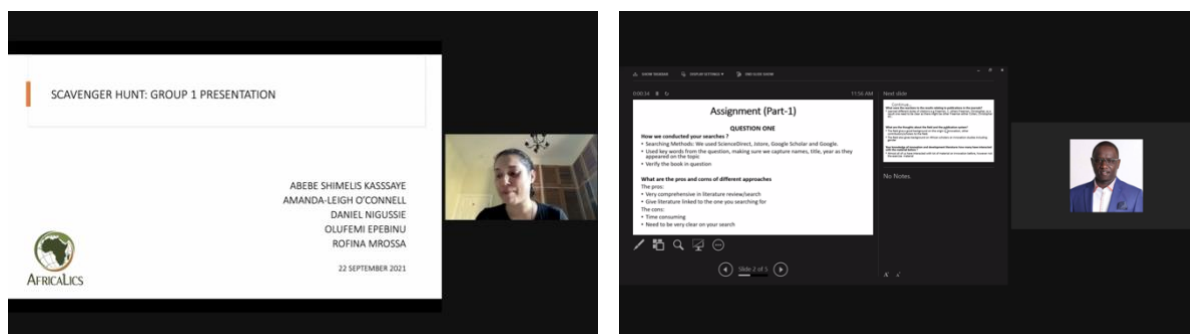
The scavenger hunt focused on the theory and research undertaken in the field of innovation and development studies. Groups were expected to divide the tasks amongst themselves, or each complete the hunt individually at their own pace and then come back together after they have completed all tasks.

#### 2. Preparation of a group presentation

On completion of the scavenger hunt, students were required to re-group and answer a series of questions that were used to provide the basis for a presentation that they were expected to give in Week 2. Further specific details of the group work were given during Week 1.

#### 3. Group presentation

In Week 2, groups presented their work. The presentation was required to be no more than 15 minutes and all group members presented during the presentation.



*Group work presentation by PhD Academy students*

#### 4. Policy session

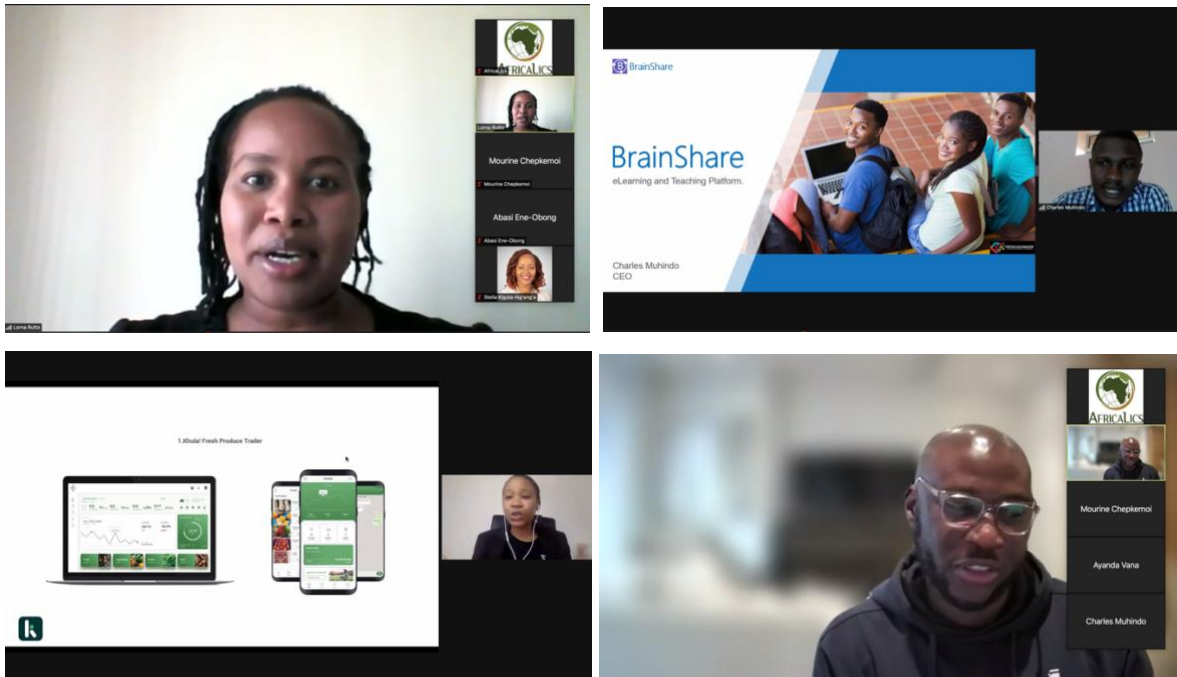
On 22<sup>nd</sup> September 2021 as part of the Academy, a roundtable with innovation entrepreneurs was held on the subject how do they innovate - In this session innovators from different countries in Africa discussed how and why they innovate, the challenges they face and where they need assistance from the academics.

The speakers at the roundtable included:

- Ms. Lorna Rutto (Ecopost, Kenya)
- Mr. Charles Muhindo (Brainshare, Uganda)

- Ms. Ayanda Vana (Khula, South Africa)
- Dr. Abasi Obong (54GENE, Nigeria)

The event was predominately attended by the PhD students. The students asked a wide range of questions to the presenters and this was judged by everyone present as perhaps the best part of the academy.



*Policy session roundtable presentations by business start ups*

## 5. Social events

The Academy was not all work throughout, students enjoyed virtual social activities. Given that we are unable to have a physical face-to-face event, we are unable to conduct our usual fieldtrips and excursions that accompany an Academy. However, the scavenger hunt and a final 'virtual tour and social mixer' event provided some alternative social events for the students to engage in.

## 3. The evaluation survey

### 3.1 Background

An anonymous survey was conducted among students on the final day of the 7<sup>th</sup> AfricaLics PhD Academy to gather input and ideas for future events. Overall response rate was 87% (n=?).

### 3.2. Structure of the survey

The survey consisted of the following sections:



- Overall evaluation of the course and program.
- Coverage of particular thematic and methodical aspects.
- Open comments.
- Usefulness of particular programme aspects.
- Assessment of potential change of time and attention distribution between different program parts.
- Assessment of support related with other program modifications.
- General individual information concerning study conditions, progress and professional aspirations.

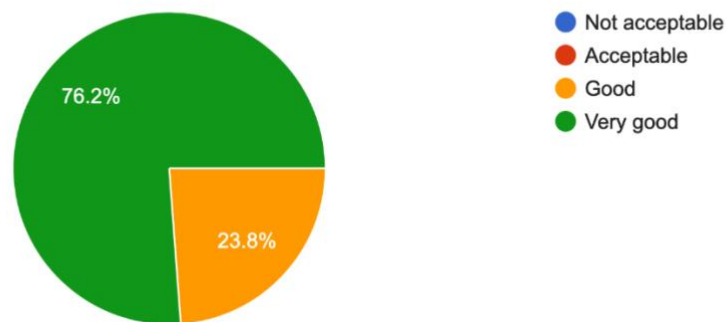
### 3.3. Results of the evaluation survey

As shown in the results below, overall, participants were satisfied with the course and overall programme structure. The overall contents of the lectures received positive evaluation by the PhD students. Most students agreed that overall innovation theories and research methodology received enough attention.

#### Part one: Overall evaluation

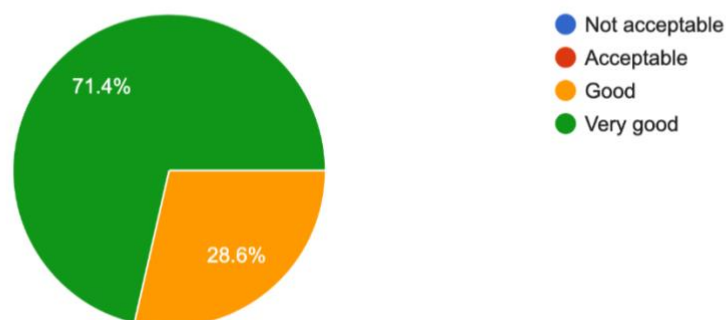
(a) The overall assessment of the Academy?

21 responses



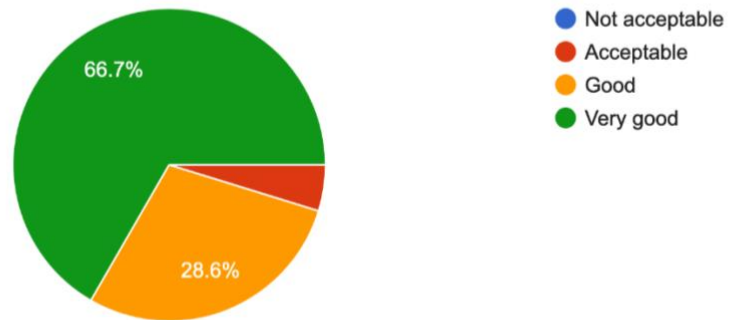
(b) The overall structure of the Academy program?

21 responses



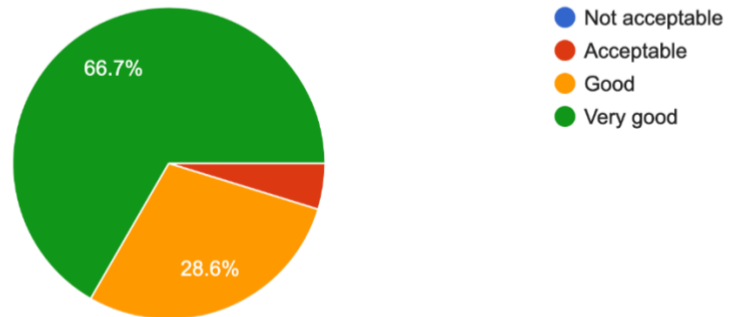
(c) General organization of the Academy?

21 responses



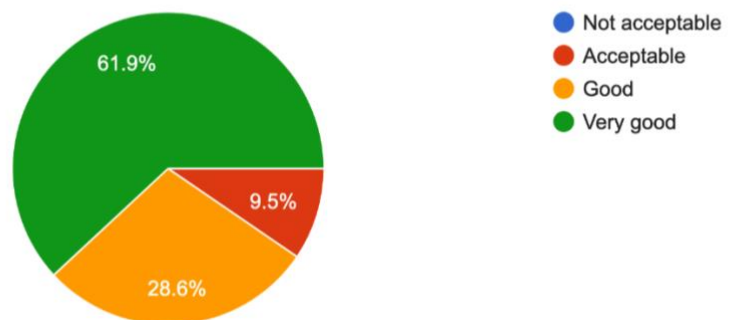
(d) Time allocated to paper presentations, discussion, and feedback from reviewers?

21 responses



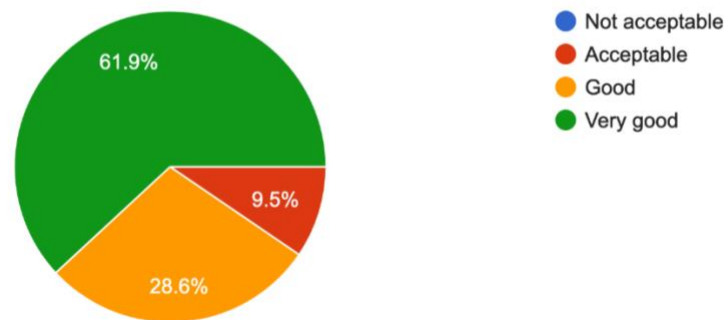
(e) Relevance for the Academy topic areas to your PhD topic

21 responses



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21 responses



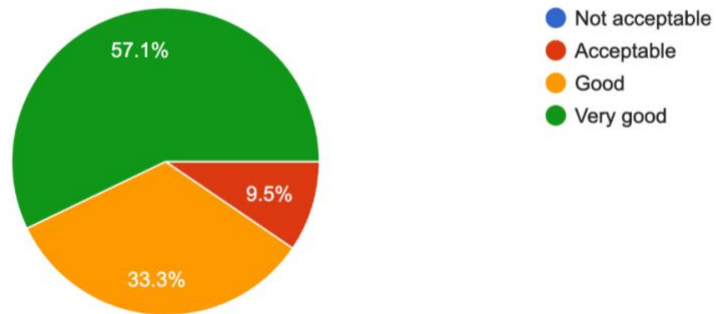
**Any topic that you think was not given adequate attention or was not covered and should be included in future AfricaLics PhD Academy?**

- Academic writing.
- Emerging technologies (like IOT, I4.0 and innovation).
- Practical empirical approach to measure the innovation, and utilization of the available data.
- Would have loved a repeat of the Project Management session in Week 2.
- Social network analysis, analysing of qualitative data.
- Digital economy.
- more insights into alternative appropriation mechanisms of knowledge on the African continent and the measurements and metrics of innovation ongoing. This is an area that the Open African Innovation Research (OpenAir) Network of researchers have done a lot of work.
- Tourism destination development and marketing.
- Issues on COVID-19 pandemic and new normal.
- Sustainable Innovation.
- Insights on good research practice and institutional norms in academia could be helpful. Senior scholars' suggestions of 'must read' foundational texts could be helpful at the end of the academy.
- Methods of Analysis.
- Digital human resource management.

## Part Two: How would you rate?

(a) Ability to ask questions and comment?

21 responses



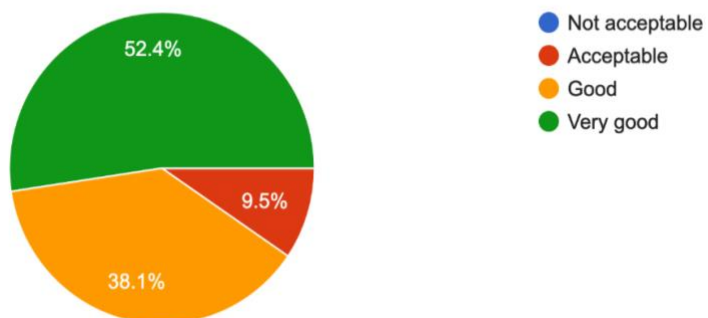
(b) Ability to hear and understand what was being said?

21 responses



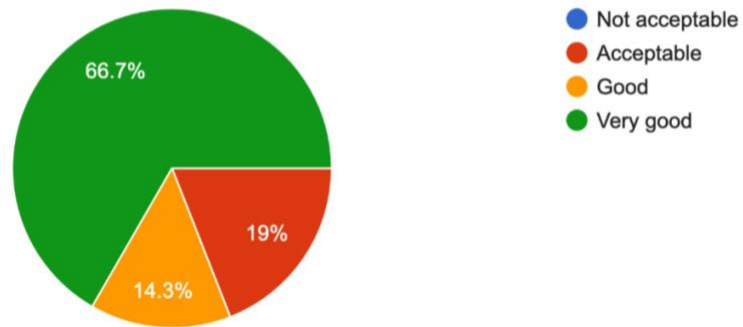
(c) The use of allied virtual tools e.g. menti.com

21 responses



(d) The use of breakout rooms?

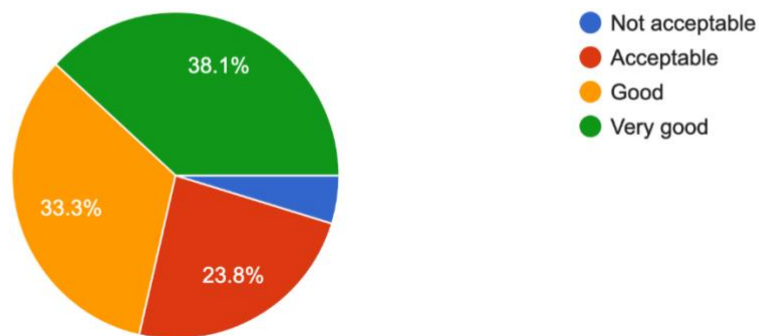
21 responses



How do you rate:

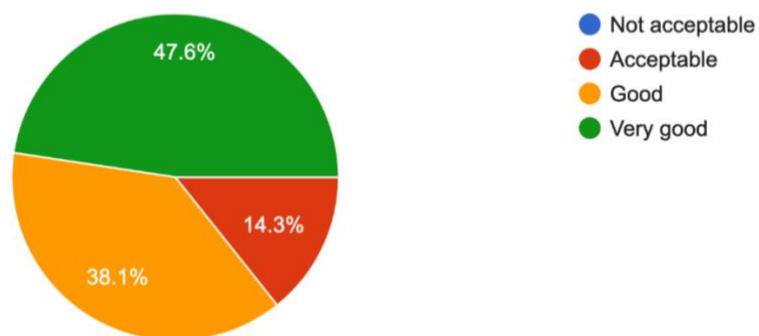
(a) Testing your online research skills

21 responses



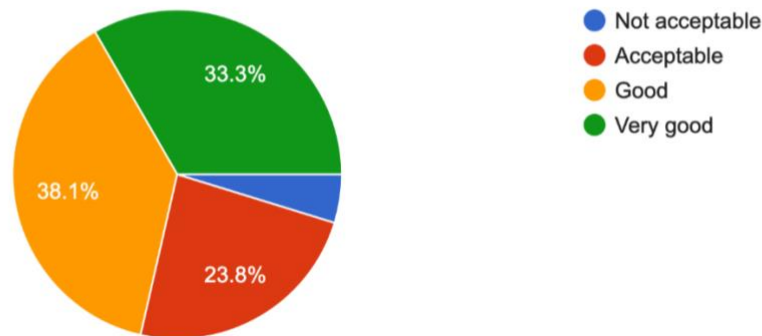
(b) Making you think differently

21 responses



(c) The application used to run the hunt

21 responses

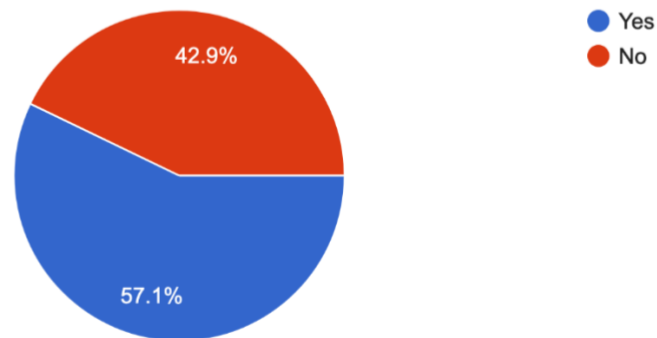


**Do you have any other comments on the way in which we could improve a PhD Academy in future, specifically if held online again?**

- Revise the group discussion mechanisms and plat forms.
- Invite experts/discussants on the related topics. As I felt my discussant was not expert on my subject.
- A minimum general Support for Data usage if held online
- Would have loved to see Policy Makers and Government officials invited for Q&A sessions Perhaps financial institutions funding innovative projects too. That way we can have further insights into how the policy and funding decisions are made.
- Provide an allowance to cover internet services.
- I suggest having shorter periods for virtual engagements like say from 8:30AM - 11AM per day and then stretching from a week to a week and half instead of the present arrangement.
- The Academy was obviously a concisely planned out program. It's been such an informative session.
- Invite supervisors of selected candidate as well. (For those who are willing).
- Invite international guests like Prof. Lundvall.
- Participants asked to identify an innovative activity they are working on, and innovators may evaluate their viability.
- Have short but more frequent group engagements during the first week, to build rapport for group work. I thought the schedule was quite doable and an extra 15min for (smaller) breakout group reflections at the end of each day could be valuable. A shorter gap between the first and second weeks may help maintain momentum. Moderators could have one or two points prepared to stimulate discussion where participants are hesitant to contribute.
- The role of the host University should be clearly indicated, Coordination among differet colleges and Facilities should be enhanced. The responsibility should be shared.
- Students from those countries that had network challenges to be facilitated with bundles.
- To present twice, first week and second week after updating the comments.

Have you ever attended any other AfricaLics organized event before

21 responses



**Any other comments that may improve the organisation of future AfricaLics PhD Academies?**

- Invite professors with Engineering background.
- Evaluation of experts and discussants.
- Funding opportunities for doctoral studies.
- More time for paper presenters with detailed review feedback.
- Sponsorship of collaborative research.
- Prepare funds for the research work.
- Good organization overall. Shared drives worked well. I would like to add that the selected texts were excellent.
- Virtual academy not recommended.
- Presentation slides to be shared prior before presented.

## 4. The organizing team

### 4.1 AfricaLics Secretariat team

1. Dr. Ann Kingiri - African Centre for Technology Studies (ACTS), Kenya
2. Dr. Rebecca Hanlin - African Centre for Technology Studies (ACTS), Kenya
3. Dr. Margrethe Holm Andersen - Aalborg University, Denmark
4. Mourine Cheruiyot - African Centre for Technology Studies (ACTS), Kenya
5. Moses Owidhi - African Centre for Technology Studies (ACTS), Kenya

### 4.2 Local organizing team

1. Dr. Kassahun Tegegn - University of Gondar, Ethiopia
2. Dr. Mulugeta Negash - University of Gondar, Ethiopia

## 5. Funding, budget & support

The academy benefited from two main sources of funding: AfricaLics Secretariat at ACTS through the Sida grant and the host institution, University of Gondar, Ethiopia. As this event was held online event, no travel support was provided to the participants.

The success of the 7<sup>th</sup> PhD Academy would not have been possible without the support and dedication of several individuals and organisations, namely:

1. The staff of the University of Gondar, Ethiopia
2. All facilitators and their employers who provided their time without additional remuneration.

## 6. Lessons learnt

Being the seventh PhD Academy held by AfricaLics, we took stock after this event and conducted a formal debrief with organisers. The following points were discussed:

- **Master's students** - Including several master's students in an Academy is a good way of sensitising the initial pipeline of candidates for PhDs in this area.
- **Length and content** - Student requested for longer paper presentation sessions to receive adequate feedback from discussants and other participants. In addition, if held again online, more consideration of the timing of group work and enhanced opportunities for building group rapport would be useful. The survey feedback also highlighted a range of other topic areas (theoretical and methodological) that students would have appreciated. This is common with previous Academy post-event surveys. Unfortunately we cannot cover everything in a two week event but moving online does mean we can build a repository of material that can be made available to other (future and past) academy participants to ensure higher levels of coverage of different topics.
- **Language** - The academy was offered in English but there is need to include other languages to increase participation for student from both Francophone and Lusophone countries.



- **Internet connectivity** - This proved to be a challenge for many participants due to coverage issue and cost. That being said, we had asked students before the event if they needed support financially with this and received only one formal request for this support (from the student participating in India). Therefore, the issue is less about cost perhaps and more about reliability as we did have students who kept coming in and out of the meeting and/or had to attend in odd places like cars, their garden etc.

## Appendices

### Appendix 1: Call for applications

AfricaLics is part of the worldwide research network, The Global Network for the Economics of Learning, Innovation, and Competence Building Systems (Globelics). The purpose of the 7<sup>th</sup> AfricaLics Ph.D. Academy is to support the training of African Doctoral students engaged in research in the academic field of 'innovation and development'. This is a multidisciplinary field which includes researchers from a range of disciplines often studying innovation studies, the economics of innovation, innovation management, technology management, science and technology studies. Students and faculty working in the field of innovation and development and principally interested in how innovation relates to economic and social development in Africa are the main target group for the PhD Academy, but the Academy also aims to stimulate awareness of policy and management issues related to this burgeoning field of research.

The Academy will host around students from Africa and a handful of students from the rest of the world. The Academy will invite frontier researchers in the field of innovation and development from around the world to provide lectures and mentor students. We will invite applications from a small number of master's degree students to attend the second week of the event.

Due to the unprecedented and continuing COVID-19 pandemic we are moving the Academy online using Zoom conferencing. The event will take place in two blocks of 5 days of training. The first block will be in July 2021 and the second in September 2021. Each day during each of the two weeks will consist of three (3) sessions. Each session will be 1.5 hours long with a break between each session. To enable participation across all of Africa's time zones, the sessions will start at 08:30hrs GMT and will finish at 15:00 GMT. All sessions will include simultaneous translation into French.

Given the move online, the format and sessions have changed a little from previous years. However, we will still retain the following activities:

- Lectures by senior researchers on areas ranging from research methodologies to the latest theories and empirical research in the fields of innovation, innovation management and science policy.
- Presentations by Doctoral students of their work with feedback from the senior scholars facilitating at the event.
- Sessions focused on enabling interaction between the students and practitioners and policy makers on innovation and development issues

The first week will focus on presentations by doctoral students and various practical skills building sessions relating to studying a PhD. The second week will focus on lectures on theory and methods. In between the two weeks' activities (i.e., in August 2021) there will be a requirement to participate in a group activity that will require approximately 16 hours of time. This will mostly be offline activities interspersed with 2 hours of online meetings and interaction on a WhatsApp group.

## **Participants and qualification requirements**

The number of candidates will be a maximum of 25 in week 1 and 35 in week 2. PhD students who wish to participate will need to fulfil the following requirements:

- be at least in the beginning of his/her second year at the time of the academy
- work explicitly on issues related to policy-oriented analysis of science, technology and innovation<sup>1</sup>
- be able to present an original paper reflecting his/her research and/or thesis work

Master's degree students who wish to participate will need to fulfil the following requirements:

- be a registered master's student in an African university on a degree programme in economics, business or management studies, sociology or development studies or similar
- have a master's project that will focus on an aspect of innovation studies (i.e., innovation management or innovation systems)<sup>2</sup>

To improve diversity in the emerging academic community on innovation and development studies research in Africa, we encourage female scholars and those from low-income countries to apply.

## **Submission**

PhD students who apply must submit an extended abstract of their PhD thesis of not more than 5 pages. Masters' students who apply must submit an extended abstract of their master's project of not more than 2 pages. Abstracts should be typed double-spaced in French or in English with font size 12. The abstract should state the objectives, methodology, expected results and (expected) conclusions of the student's PhD, including supporting figures and main references.

The abstract must be submitted together with the applicant's CV and a recommendation letter from the principal PhD/ Masters supervisor or a senior scholar who knows the applicant's work.

These three documents should be sent to the AfricaLics Secretariat ([academy2021@africalics.org](mailto:academy2021@africalics.org)) on or before 26<sup>th</sup> June 2021.

## **Selection**

All extended abstracts will be reviewed by at least two senior scholars from a review panel made up of members of the AfricaLics Scientific Board, AfricaLics Secretariat and the host University.

Selection will be made based on academic quality of extended abstracts as well as on the basis of criteria aimed at promoting diversity (by location, gender etc.). Selection criteria for

AfricaLics events are published on the AfricaLics website: <http://www.africalics.org/selection-criteria/>

Successful applicants will be notified by 5<sup>th</sup> July, 2020 of their acceptance to the Academy.

### **Sponsorship and travel support**

No sponsorship or travel support will be provided for those who apply and are accepted onto the PhD Academy programme. Accepted participants will be responsible for ensuring they have good quality internet access for each day of the event.

### **Final paper upload and confirmation of attendance**

All successful applicants will be expected to have confirmed their participation by Monday 12<sup>th</sup> July 2021 or their place will be given to someone else.

We recommend that all applicants pencil in the dates of the event in their diaries as soon as they apply as there is very little time between notification of acceptance and the first week of the event.

All selected participants who confirm attendance will also be expected to upload a final FULL paper (details of this will be given in your acceptance letter) by 22<sup>nd</sup> July 2021.

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### **Organization and support**

The 7th AfricaLics Ph.D. Academy is jointly organized by the University of Gondar with support from the AfricaLics Secretariat hosted at the African Centre for Technology Studies (ACTS), Kenya. The event is supported financially by the University of Gondar, the AfricaLics network and Sida (Swedish International Development Cooperation Agency) through Sida Research.

The local organizing committee is led by: Dr. Kassahun Tegegn, Vice President for Academic Affairs University of Gondar. Day to day organization of the Academy at University of Gondar is the responsibility of Dr. Mulugeta Negash. Organization of the Academy at the AfricaLics Secretariat is being managed by Dr. Rebecca Hanlin.

### **Contacts**

For any queries or questions about the academy by contact: [academy2021@africalics.org](mailto:academy2021@africalics.org)

For general queries about University of Gondar: [mulugetanw@gmail.com](mailto:mulugetanw@gmail.com)

For general queries about AfricaLics: [secretariat@africalics.org](mailto:secretariat@africalics.org)

## Appendix 2: Event Programmes

### PhD Academy pre-event/information meeting held on 14<sup>th</sup> October 2021

#### TENTATIVE AGENDA

The pre-event meeting will be held using a virtual medium (Microsoft Teams meeting) and be two hours long.

TIME	TOPIC	DETAILS	PROPOSED SPEAKERS
15.00 – 15.15	Welcome remarks	University of Gondor & AfricaLics	DVC Research, UG & Dr. Ann Kingiri, AfricaLics
15.15 – 15.30	Introduction AfricaLics	History of AfricaLics	Dr. Ann Kingiri, AfricaLics
15.30 – 16.00	PhD Academy submissions	Introduction to PhD Academies – how to write a good submission	Dr. Rebecca Hanlin, AfricaLics
16.00 – 16.10	Break		
16.10 – 16.40	Innovation and Development in Ethiopia	Setting the scene keynote – the relationship between innovation activities and development goals in Ethiopia	Prof. Daniel Kitaw, University of Addis Ababa
16.40 – 17.00	Discussion	Moderated Q&A	Moderator from University of Gondor

#### PhD academy programme

All sessions will be recorded and made available to participants after the academy.

The sessions on Monday 26<sup>th</sup> July and Monday 20<sup>th</sup> September 2021 will be open to participation from any staff or student at University of Gondor and invited guests.

All other sessions will be closed to full PhD Academy participants and participants with observer status.

#### Monday 26<sup>th</sup> July 2021

<b>Time (EAT)</b>	<b>Moderator:</b> Dr Rebecca Hanlin, AfricaLics Secretariat
<b>11:30 – 13:00</b>	<p><b>Group work</b></p> <p>Introductions and aims of the Academy</p> <p><i>This session will consist of:</i></p> <ol style="list-style-type: none"> <li>1. <i>Opening addresses by:</i> <ol style="list-style-type: none"> <li>a. <i>Dr. Ann Kingiri, Executive Secretary of AfricaLics</i></li> <li>b. <i>Prof. Kassahun Tegegne, Vice-President Academic, University of Gondor</i></li> </ol> </li> <li>2. <i>An introduction to AfricaLics, the AfricaLics PhD Academy series and the programme for the 7<sup>th</sup> AfricaLics PhD Academy</i></li> </ol>
<b>Break</b>	

<b>14:00 – 15:30</b>	<b><u>Group work</u></b> General breaking the ice discussion on the relationship between innovation and development [Due to postponement of original Keynote resulting from internet connectivity issues]
<b>Break</b>	
<b>16:30 – 18:00</b>	<b><u>Keynote lecture 2</u></b> The history and status of innovation and development studies in Africa Prof. Erika Kraemer-Mbula, University of Johannesburg <i>In this second keynote lecture, Prof. Kraemer-Mbula will examine the origins of innovation and development studies in Africa. She will discuss how important African and other Southern voices were in shaping what became dominant 'development studies' approaches and the emergence of innovation studies in the 1970s and innovation systems thinking in the 1980s and 1990s.</i>

## Tuesday 27<sup>th</sup> July 2021

<b>Time (EAT)</b>	<b>Moderator:</b> Mulugeta Negash, University of Gondor
<b>11:30 – 13:00</b>	<b><u>Paper presentations 1</u></b> <i>Paper 1:</i> Financing niche innovation for transport energy transitions: the case of road transport in South Africa – Amanda-Leigh O’connell <i>Paper 2:</i> Sustainable business models: redesigning corporate financial resilience measurements to promote socio-ecological transitions – Liesel Kassier <i>Paper 3:</i> Does finance matter for firm transition? Evidence from India – Golan Rabbani <i>Discussant:</i> Dr. Geoff Banda, University of Edinburgh
<b>Break</b>	
<b>14:00 – 15:30</b>	<b><u>Paper presentations 2</u></b> <i>Paper 1:</i> Technology business start-ups in Ethiopia – Abebe Shimelis Kassaye <i>Paper 2:</i> Technology spill over and knowledge transfer to the building construction industry in Lagos state, Nigeria – Olumide Ayeniyo <i>Paper 3:</i> Developing Decentralized Manufacturing Process in the Ethiopian Apparel Industry – Surafel Abdissa <i>Discussant:</i> Prof. Dave Kaplan, University of Cape Town
<b>Break</b>	
<b>16:30 – 18:00</b>	<b><u>Paper presentations 3</u></b> <i>Verbal abstracts presented by the following University of Gondor students:</i> <ul style="list-style-type: none"> <li>- The Antecedents and Consequences of Organizational Politics in Public Sectors Evidence from ANRS by Addisu Debalke</li> <li>- Chance Constrained Stochastic Recursive/Dynamic Optimization Built on Multi-Period, Multi-Level and Multi-Objective Programming of Land Use Under a Fuzzy Decision Atmosphere: The Paradigm of Choke Watershed, Ethiopia Yibeltal Belachew</li> </ul> <i>Followed by open Q&amp;A</i>

## Wednesday 28<sup>th</sup> July 2021

<b>Time (EAT)</b>	<b>Moderator:</b> Mourine Cheruiyot, AfricaLics Secretariat
<b>11:30 – 12:15</b>	<b><u>Group work</u></b> <i>Introduction to the virtual theory scavenger hunt and associated group work</i>
<b>12:15 – 13:00</b>	<b><u>Practical 1</u></b> Project management skills for your PhD Dr. Rebecca Hanlin, AfricaLics Secretariat <i>In this session, Dr. Hanlin, will outline a series of tips to keep you on track will doing your PhD. This will be an interactive session including breakout room group work.</i>
<b>Break</b>	
<b>14:00 – 15:30</b>	<b><u>Paper presentations 4</u></b> <i>Paper 1: Innovation and women entrepreneurship. Evidence from small scale food processing entrepreneurs in Tanzania – Rofina Mrosso</i> <i>Paper 2: A Study of Gender Responsiveness in Technologies for Small-Scale Rice Production in Nigeria – Tomilola Oguntunde</i> <i>Paper 3: Electronic human resource management (E-hrm) and organisational performance in the Nigerian brewery industry – Olufemi Epebinu</i> <i>Discussant: Dr. Ann Kingiri, AfricaLics Secretariat</i>
<b>Break</b>	
<b>16:30 – 18:00</b>	<b><u>Paper presentations 5</u></b> <i>Paper 1: Collective Innovations for Sustainable Land Management: Reply to Land Degradation and Livelihood Insecurity in Southern Highlands of Ethiopia – Alemayehu Temesgen</i> <i>Paper 2: Knowledge Appropriation in the Suame Magazine Informal Innovation Cluster: Modalities, and Relevance to Intellectual Property Policy making and Development in Ghana – Yaw Adu-Gyamfi</i> <i>Paper 3: Positioning Indigenous Knowledge in South Africa’s Fourth Industrial Revolution: The case of Indigenous Games – Gaboile Mabeba</i> <i>Discussant: Prof. Opiyemi Ayinde, University of Ilorin</i>

## Thursday 29<sup>th</sup> July 2021

<b>Time (EAT)</b>	<b>Moderator:</b> Mulugeta Negash, University of Gondor
<b>11:30 – 13:00</b>	<b><u>Paper presentations 6</u></b> <i>Paper 1: Extent to which actor and farmer participation in coffee multi- stakeholder innovation platforms contribute to farmer transformation in Uganda – Justine Nalunkuuma</i> <i>Paper 2: Analysis of Maize Innovation Processes and Practices: Application of Integrative Innovation System framework and Multi-Level Perspective: The Case of North –Western, Ethiopia – Daniel Ngussie, University of Gondor</i> <i>Paper 3: Local economic development in cashew production: agricultural innovation system approach – Fabiyi Oluwasegun Tope</i> <i>Discussant: Dr. Lillian Lihasi, Agribusiness consultant</i>
<b>Break</b>	
<b>14:00 – 15:30</b>	<b><u>Paper presentations 7</u></b> <i>Paper 1: Antecedents of Technological Innovativeness in Commercial State-Owned Enterprises: Evidence from Firm-Level Survey in Kenya – Fredrick Kimaru</i> <i>Paper 2: The adoption and diffusion of internet technology in the selected industrial clusters in southwestern Nigeria – Michael Olomu</i> <i>Discussant: Dr. George Essegbey, Science and Technology Policy Research Institute</i>



<b>Break</b>	
<b>16:30 – 18:00</b>	<p><b><u>Lecture 1</u></b>          Opportunities for localization and learning in the value chain of renewable energy technologies: A case of solar PV value chain in Ethiopia          Dr. Kassahun Yimer Kibede, <i>Stanford</i> Institute for Innovation in Developing Economies  <i>This lecture will focus on what it takes to build local industries along the value chain of renewables in Africa. It will focus specifically on the concept of 'local learning' as one of the key factors in the successful deployment of renewable energy technologies. Dr. Yimer will outline a case study of solar PV in Ethiopia to identify the opportunities of localizing and learning in the value chain through public procurement.</i></p> <p><i>NB: Was unable</i></p>

### Friday 30<sup>th</sup> July 2021

<b>Time (EAT)</b>	<b>Moderator:</b> Dr. Rebecca Hanlin, AfricaLics Secretariat
<b>11:30 – 13:00</b>	<p><b><u>Keynote lecture 1</u></b>          Innovation and Development: why this relationship is important for Ethiopia?          Prof. Daniel Kitaw, Addis Ababa University  <i>During this first keynote lecture, Prof. Kitaw will provide an overview of how innovative activities are taking place in Ethiopia and the impact this has had on Ethiopia's economic development.</i></p>
<b>Break</b>	
<b>14:00 – 15:30</b>	<p><b><u>Paper presentations 8</u></b>  <i>Paper 1:</i> Essays on determinants of innovation and its relationship with economy growth – Abibo Abebaw  <i>Paper 2:</i> Concept paper on designing and modelling National Innovation Systems for the Ethiopian economy  <i>Discussant:</i> Prof. Mammo Muchie, <i>Tshwane University of Technology</i></p>
<b>Break</b>	
<b>16:30 – 18:00</b>	<p><b><u>Group work</u></b>          Closing of first week  <i>This session will be an informal closing session of the week which will enable students to provide some initial feedback.</i></p>

### Monday 20<sup>th</sup> September 2021

<b>Time (EAT)</b>	<b>Moderator:</b> Dr Rebecca Hanlin, AfricaLics Secretariat
<b>11:30 – 13:00</b>	<p><b><u>Group work</u></b>          (Re-)Introductions and aims of the second week of the Academy  <i>This session will be an informal session to re-introduce each other and to go over the programme for this second week of the Academy.</i></p>
<b>Break</b>	
<b>14:00 – 15:30</b>	<p><b><u>Keynote lecture 3</u></b>          Innovation policy for Africa's development: From Fallacies to Concreteness          Prof. John Mugabe, <i>University of Pretoria</i></p>
<b>Break</b>	

<b>16:30 – 18:00</b>	<b><u>Keynote lecture 4</u></b> Experiences from Asia’s catch up and technological change: Reflections for the African continent <i>Prof. Keun Lee, Seoul National University</i>
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**Tuesday 21<sup>st</sup> September 2021**

<b>Time (EAT)</b>	<b>Moderator:</b> Dr. Agnes Lutomiah, African Centre for Technology Studies
<b>11:30 – 13:00</b>	<b><u>Lecture 2</u></b> Industrialization strategies in Africa: case study <i>Dr. Abdi Yuya Ahmad, Adama Science and Technology University</i>
<b>Break</b>	
<b>14:00 – 15:30</b>	<b><u>Practical 2</u></b> The PhD process: experience sharing session <i>This session will allow students a chance to share experiences and hear from those who have completed a PhD in recent years.</i>
<b>Break</b>	
<b>16:30 – 18:00</b>	<b><u>Practical 3</u></b> Publication tips from journal editors <i>This session will be a Q&amp;A session with editors of core innovation and development studies journals to hear from them what they look for in a good journal paper.</i>

**Wednesday 22<sup>nd</sup> September 2021**

<b>Time (EAT)</b>	<b>Moderator:</b> Dr. Margrethe Holm Andersen, Aalborg University
<b>11:30 – 13:00</b>	<b><u>Group work</u></b> Groups present results of the scavenger hunt. <i>This session will see students present the output of their work that started in a virtual scavenger hunt and ended with the production of a joint presentation on key actors and concepts in innovation and development studies.</i>
<b>Break</b>	
<b>14:00 – 15:30</b>	<b><u>Lecture 3</u></b> Quantitative Research: a multi-dimensional scaling focus <i>Dr. Mulugeta Negash, University of Gondor</i>
<b>Break</b>	
<b>16:30 – 18:00</b>	<b><u>Practical 4</u></b> Session to be confirmed

**Thursday 23<sup>rd</sup> September 2021**

<b>Time (EAT)</b>	<b>Moderator:</b> Mourine Cheruiyot, AfricaLics Secretariat
<b>11:30 – 13:00</b>	<b><u>Methods 1</u></b> Measuring Innovation [1/2] <i>This is the first of two sessions that form a ‘mini-research methods workshop’. The focus of the workshop will be new and alternative ways to measure innovation.</i>
<b>Break</b>	
<b>14:00 – 15:30</b>	<b><u>Methods 2</u></b> Measuring Innovation [2/2] <i>A continuation of the mini workshop on measuring innovation.</i>
<b>Break</b>	

<b>16:30 – 18:00</b>	<p><b><u>Policy session</u></b>  Roundtable with manufacturers: how do they innovate?  <i>In this session innovators from different countries in Africa will discuss how and why they innovate, the challenges they face and where they need more knowledge (assistance from academics).</i>  <i>Confirmed speakers are:</i></p> <ol style="list-style-type: none"> <li>1. Lorna Rutto of Ecopost, Kenya</li> <li>2. Charles Muhindo of Brainshare, Uganda</li> <li>3. Ayanda Vana of Khula, South Africa</li> <li>4. Abasi Obong of 54GENE, Nigeria</li> </ol>
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### Friday 24<sup>th</sup> September 2021

<b>Time (EAT)</b>	<b>Moderator:</b> Dr. Mulugeta Negash, University of Gondor
<b>11:30 – 13:00</b>	<p><b><u>Group work</u></b>  Reflections and evaluation of the Academy  <i>This session will provide participants with an opportunity to give formal feedback on the two weeks of activity and take-home points.</i></p>
<b>Break</b>	
<b>14:00 – 15:30</b>	<p><b><u>Closing Ceremony</u></b>  Closing speeches and a short final keynote lecture</p>
<b>Break</b>	
<b>16:30 – 18:00</b>	<p><b><u>Group Work</u></b>  Virtual Social Event  <i>Details to be sent separately</i></p>

## Appendix 3: 7<sup>th</sup> AfricaLics PhD Academy participants

### Participating Students

No:	Names	Institution	Country	Email
1.	Abebaw Abibo	University of Gondar	Ethiopia	abebaw.gondar2011@gmail.com
2.	Abebe Shimelis Kassaye	Adama Science and Technology University	Ethiopia	abebeshmels@gmail.com
3.	Alemayehu Temesgen	Haramaya University, Ethiopia	Ethiopia	temesgenalemayoo@gmail.com
4.	Amanda-Leigh O'Connell	University of Johannesburg	South Africa	amandaleighoc@gmail.com
5.	Daniel Nigussie	University of Gondar	Ethiopia	any_266@yahoo.com
6.	Fabiyi Oluwasegun Tope	University of Ilorin	Nigeria	segunfabiyi@gmail.com
7.	Fredrick Kimaru	Jomo Kenyatta University of Agriculture and Technology (JKUAT)	Kenya	jfkimaru@gmail.com
8.	Gaboile Mabeba	University of Johannesburg	South Africa	gmabeba@uj.ac.za
9.	Golan Rabbani	Sikkim University	India	grabani.eco@gmail.com
10.	Justine Nalunkuuma	Makerere University	Uganda	justinen64@gmail.com
11.	Liesel Kassier	University of Johannesburg	South Africa	lieselkassier@gmail.com
12.	Michael Olomu	Obafemi Awolowo University	Nigeria	moolomu@yahoo.com
13.	Olufemi Epebinu	The Federal University of Technology Akure	Nigeria	femiepebinu@gmail.com
14.	Olumide Ayeniyo	Obafemi Awolowo University	Nigeria	olumideayeniyo@gmail.com
15.	Rofina Mrosso	Mzumbe University	Tanzania	rmrosso@irdp.ac.tz
16.	Surafel Abdissa	Addis Ababa University	Ethiopia	surafel1053po@gmail.com
17.	Teshome Sahilemariam	Adama Science and Technology University	Ethiopia	teshomesmariam@gmail.com
18.	Tomilola Oguntunde	Obafemi Awolowo University	Nigeria	oguntundetomilola4@gmail.com
19.	Yaw Adu-Gyamfi	University of Johannesburg	South Africa	yagyamfi@gmail.com

## List of facilitators

No:	Name	Organisation	Country
1	Dr. Rebecca Hanlin	ACTS/AfricaLics	Kenya
2	Dr. Mulugeta Negash	University of Gondor	Ethiopia
3	Dr. Ann Kingiri	ACTS/ AfricaLics	Kenya
4	Prof. Kassahun Tegegne	University of Gondor	Ethiopia
5	Prof. Daniel Kitaw	Addis Ababa University	Ethiopia
6	Dr. Geoff Banda	University of Edinburgh	UK
7	Prof. David Kaplan	University of Cape Town	South Africa
8	Dr. Lillian Lihasi	Consultant	Kenya
9	Prof. George Essegbey	Science and Technology Policy Research Institute	Ghana
10	Dr. Kassahun Yimer	Stanford University	Ethiopia
11	Prof. Opiyemi Ayinde	University of Illorin	Nigeria
12	Prof. Mammo Muchie	Tshwane University of Technology	South Africa
13	Prof. John Mugabe	University of Pretoria	South Africa
14	Prof. Keun Lee	Seoul National University	South Korea
15	Dr. Agnes Lutomiah	ACTS	Kenya
16	Dr. Abdi Yaya Ahmad	Adama Science and Technology University	Ethiopia
17	Dr. Margrethe Holm Andersen	Aalborg University/ AfricaLics	Denmark
18	Ms. Mourine Cheruiyot	ACTS/ AfricaLics	Kenya

## List of observers

No:	Name	Organisation	Country
<b>REGULAR OBSERVERS (Week 2 only)</b>			
1	Aste Franck Désiré KOMAN	Institute of Economics and Management of the Catholic University of West Africa (UCAO)	Côte d'Ivoire
2	Oluwadamilare Odu-Onikosi	Lagos State University	Nigeria
3	Yesuto Adam LAWSON	Ecole Nationale d'Economie Appliquée et de Management (ENEAM))	Benin
<b>MODIFIED OBSERVER STATUS (Week 1 and 2)</b>			
4	Abebe Shibeshi	University of Gondor	Ethiopia
5	Addisu Debulke	University of Gondor	Ethiopia

6	Yibeltal Belachew	University of Gondor	Ethiopia
4	Ann Numi	Jaramogi Oginga Odinga University of Science and Technology/ ACTS	Kenya
5	Mbeo Ogeya	Jaramogi Oginga Odinga University of Science and Technology/ ACTS	Kenya
6	Josephat Okemwa	University of Nairobi/ ACTS	Kenya

#### List of other invited guests

No:	Name	Organisation	Country
1	Dr. Derbew Kenubih	University of Gondar	Ethiopia
2	Dr. Demis Getahun	University of Gondar	Ethiopia
3	Dr. Asmamaw Alemu	University of Gondar	Ethiopia
4	Dr. Asmamaw Tilahun	University of Gondar	Ethiopia
5	Dr. Fentahun Bayle	University of Gondar	Ethiopia
6	Dr. Bisrat Musganaw	University of Gondar	Ethiopia
7	Dr. Wasse Getahun	University of Gondar	Ethiopia
8	Dr. Endris Nuru	University of Gondar	Ethiopia
9	Dr. Tesfahun Melese	University of Gondar	Ethiopia