



Université de Yaoundé II
Technopôle des sciences sociales

5th AfricaLics Conference

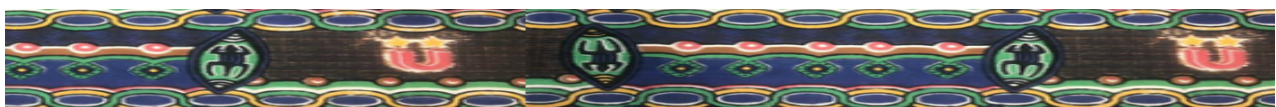
Yaoundé 2022, November 9th - 11th, 2022



National Innovation System for Resilience and Sustainable Development in Africa

Co-Host: PAU Institute for Governance, Humanities and Social Sciences (PAUGHSS)

Venue: IRIC Campus, Yaoundé



HOST ORGANIZATIONS

University of Yaoundé II-Soa

The University of Yaoundé II-Soa emerged from the former University of Yaoundé, founded in 1961 out of Presidential decree in 1993. It specializes in the teaching and research of social sciences through two branches: Economics, Law and Political Sciences, and Communication and Information Technologies. The university counts with a student body of nearly 30,000, as well as 316 teachers and 480 administrative staff. Today, the University aims to be a Technopole in the social sciences including research centers, companies, academic institutions, as well as financial organizations that facilitate personal contacts between these different entities. This Technopole wants to be the engine of public action in its diagnostic, evaluative and praxeological dimensions. Well beyond the functional needs created by the increasing complexity of the public policy environment, it intends to give meaning and innovation to the construction of the continuum between legal, political, economic, managerial, demographic and communication knowledge on the one hand and public action on the other. The University has got various establishments that align well to global and local developments. The International Relations Institute of Cameroon (IRIC) is one of these establishments which is the venue of the 5th AfricaLics Conference. IRIC is an institution of higher learning, a diplomatic institute and a research center of international relations.

PAU Institute for Governance, Humanities and Social Sciences (PAUGHSS)

The PAUGHSS is hosted at the University of Yaoundé II, Cameroon. It is one of the five Institutes of the Pan-African University and represents the Central African arm of the University. Established in 2002, the Institute presently comprises two Masters and PhD programmes in “Governance and Regional Development”, quartered in the University of Yaoundé II-Soa and in “Translation and Conference Interpretation” based in the Advanced School of Translators and Interpreters (ASTI) of the University of Buea.

The “Governance and Regional Integration programme”, seeks to give Africans the necessary intellectual and practical capabilities in the field of good governance, sustainable development and the promotion of Regional Development in Africa, while the “Translation and Conference Interpretation” programme enables young Africans to acquire the necessary skills in the field of Translation and Conference Interpretation as well as in the development of African and cross-border languages.

CONFERENCE SCIENTIFIC COMMITTEE

- Prof. Adolphe Minkoa She - University of Yaoundé II
- Prof. Elizabeth Abenga - PAUGHSS
- Prof. Marcel Fouda Ndjodo - Ministry of Higher Education, Cameroon
- Prof. Nadine Machikou - University of Yaoundé II
- Prof. Desire Avom - University of Yaoundé II
- S.E. Daniel Urbain Ndongo - IRIC, University of Yaoundé II
- Prof. Manasse Aboya Endom - University of Yaoundé II
- Prof. Edmond Biloa - University of Yaoundé II
- Prof. Patricia Bissa Enama - University of Yaoundé II
- Prof. Alphonse Tonya - University of Yaoundé II
- Prof. Stephane Ngwanza - IRIC, University of Yaoundé II
- Prof. Christopher Nsoh - PAUGHSS
- Prof. Henri Atangana Ondo - University of Yaoundé II
- Prof. Sabine Mbenda Mougou - University of Yaoundé II
- Prof. Francoise Okah Efogo - University of Yaoundé II
- Prof. Dieudonne Mignamisi - University of Yaoundé II
- Prof. Joseph Massil Keneck - University of Yaoundé II
- Prof. Germain Ntono Tsimi - University of Yaoundé II
- Prof. Abdelkader Djeflat - University of Lille, France/MAGHTECH, Algeria)
- Prof. Daniel Kitaw - Addis Ababa University (AAU)
- Prof. David Kaplan - University of Cape Town, South Africa
- Prof. Erika Kraemer-Mbula - University of Johannesburg, South Africa
- Prof. Geci Karuri-Sebina - University of the Witwatersrand, South Africa
- Prof. George Essegbey - CSIR-STEPRI, Ghana.
- Dr. Gregory Mvogo - University of Douala, Cameroon
- Prof. Mammo Muchie - Tswane University of Technology, South Africa
- Dr. Rajesh Gopalakrishnan Nair - Jawaharlal Nehru University, India
- Dr. Ogundiran Soumonni - University of the Witwatersrand, South Africa
- Prof. Opeyemi Eytayo AYINDE - University of Illorin, Nigeria
- Prof. Samah Souleh - University of Biskra, Algeria

LOCAL ORGANIZING COMMITTEE (LOC)

- Dr. Essama Mekongo Pierrette - PAUGHSS
- Dr. Gregory Mvogo - University of Douala, Cameroon
- Dr. Thierry Bedzeme - University of Yaoundé II
- Dr. Martin Ndzana - University of Douala, Cameroon
- Dr. Désiré Djoumessi - University of Yaoundé II
- Dr. Yselle Flora Malah Kuete - University of Yaoundé II
- Dr. Christophe Martial Mbassi - University of Yaoundé II
- Dr. Seabrook Arthur Mveng - University of Yaoundé II
- M. Jean-Marie Nanga – University of Yaoundé II
- Dr. Prisca Assiene Bissossoli - University of Yaoundé II

AFRICALICS SCIENTIFIC BOARD

- Prof. Abdelkader Djeflat - University of Lille, France/MAGHTECH, Algeria)
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- Prof. David Kaplan - University of Cape Town, South Africa
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- Prof. Geci Karuri-Sebina - University of the Witwatersrand, South Africa
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- Dr. Ogundiran Soumonni - University of the Witwatersrand, South Africa
- Prof. Opeyemi Eytayo AYINDE - University of Illorin, Nigeria
- Prof. Samah Souleh - University of Biskra, Algeria

AFRICALICS SECRETARIAT

- Dr. Ann Kingiri, African Centre for Technology Studies (ACTS), and AfricaLics Secretariat
- Dr. Margrethe Holm Andersen, AfricaLics Secretariat
- Prof. Rebecca Hanlin, AfricaLics Secretariat and University of Johannesburg
- Ms. Mourine Chepkemoi, ACTS and AfricaLics Secretariat
- Ms. Yvonne Gitu, ACTS, and AfricaLics Secretariat
- Mr. Josephat Okemwa, ACTS and AfricaLics Secretariat
- Mr. Moses Owidhi, ACTS and AfricaLics Secretariat

SPONSORS

The organizing committee gratefully acknowledges financial support from the following institutions

- The University of Yaoundé
- The International Relations Institute of Cameroon (IRIC)
- Sida (Swedish International Development Cooperation Agency, Sweden)
- ACTS (African Centre for Technology Studies)
- Pan-African University, Institute for Governance, Humanities and Social Sciences (PAUGHSS)
- Ethiopian Airlines



PRACTICAL INFORMATION

DATES AND VENUE OF THE CONFERENCE

Dates: 9th - 11th November 2022

Venue: International Relations Institute of Cameroon (IRIC), University of Yaoundé, Cameroon.

Access to the conference venue begins at 8:00 AM

An information desk will be available during the days of the event to attend to information requests.

TRANSPORTATION TO AND FROM THE CONFERENCE VENUE

Buses will depart from outside the conference hotel every day at 7:00 A.M. (i.e., on the 9th, 10th, and 11th, November 2022). Please be on time since the buses leave on time. If you miss the buses, you may need to take a taxi. So, take note of the address of the conference venue: International Relations Institute of Cameroon (IRIC), University of Yaoundé II-Soa, IRIC, 859, rue Kribi/7001, BP. 1637 Yaoundé, Cameroon.

On Friday 11th November at 17:00PM, the conference closes. Following this, participants will have two options:

- a) Return to their hotels and take a shuttle to the airport in due time.
- b) Go directly to the airport from the conference venue (if this option is preferred you should carry your luggage with you to the conference venue in the morning and keep it with you during the day). But it is important to note that you should inform the organizing committee in advance about your wish to be picked up from the conference venue. If you fail doing so, you will be responsible for booking your shuttle/taxi to the airport yourself.

REGISTRATION

Registration takes place at Conference Hotel, Mont Fébé in Yaounde, the day before or at the conference venue each morning.

BADGE

Participants should kindly always wear their personal named badges during the conference. These will be provided in your conference pack on registration.

LUNCHES

Lunch will be served at the conference venue on 9th, 10th and 11th November for all registered conference participants. All other lunches will be the responsibility of individual conference delegates.

DINNERS

On the evening of 9th November 2022, a welcome reception will be held at the conference venue (IRIC). Additionally, on 10th November 2022 conference dinner will be served. The conference dinner will take place at Hotel Mont Fébé where most guests will be accommodated. These dinners are complementary to all registered participants of the conference i.e., there is no additional charge for these meals.

SESSIONS

PLENARY SESSIONS

Several sessions will take place in plenary. These include the opening ceremony, open symposium, keynote addresses, expert panel session and the closing ceremony. Please see programme below for details on speakers and timing of plenary sessions. Plenary sessions will – as far as practically possible – be transmitted live on the AfricaLics YouTube channel.

PAPER PARALLEL SESSIONS

Each paper parallel session normally includes two - three papers and lasts 90 minutes. One discussant will subsequently comment on all papers presented in the session. Time allowing, the paper presenters will be expected to provide one or two brief comments on the other papers presented in the session of particular relevance to their own work. The discussion then continues in plenary.

The standard time schedule for the sessions devoted to presentation of papers looks like this:

- Introduction = 5 minutes
- First paper presentation by the author = 15 minutes
- Second paper presentation by the author = 15 minutes
- Third paper presentation by the author = 15 minutes
- Discussant of all three papers = 15 minutes
- General discussion and replies from the authors = approximately 25 minutes.

Projectors will be available for PowerPoint presentations. **Presenters should bring their own laptops.** Please be aware that it is not possible to guarantee WIFI connection at the venue, so everything the presenters wish to present should be available offline.

Information on which papers are included in each paper parallel session are included in the detailed programme below.

THEMATIC SESSIONS

In addition to the Paper Parallel Sessions where full papers are presented, a few Thematic Sessions will be organized during the conference. These sessions are all organized as round table/panel discussions and focus on specific themes. It is recommended that you choose specific thematic session to attend rather than flipping between all of them.

POSTER SESSION

Poster presenters (from Cameroon) will be presenting their work and answering questions during the poster session. The posters are intended to quickly communicate the ideas and relevance of the papers presented.

ABSTRACTS, FULL PAPERS, AND PARTICIPANT LIST

All abstracts, full papers and the participant list are available for download through ConfTool. It is recommended that participants download these to their devices before travelling to Cameroon, if possible, in case WiFi at the conference venue is unstable.

CONFERENCE REVIEW PROCESS

The 5th AfricaLics Research Conference in Yaoundé, Cameroon received over 200 full paper submissions from which 85 were selected for presentation of whom 65 have been able to confirm participation and will be presenting their papers in Yaoundé. The selection of papers is based on a double-blind peer review process focusing on relevance, academic quality and originality.

A total of 100 scholars, appointed by the AfricaLics Secretariat, contributed as reviewers. The referee corps have been essential to ensure the quality of papers presented at the conference. The AfricaLics Scientific Board and the AfricaLics Secretariat are grateful for the contribution of scholars that dedicate their valuable time and support in reviewing the conference papers.

HEALTH ISSUES

Entry and exit requirements

Covid 19

Effective October 4th, 2022, all passengers on flights originating overseas flying into Cameroon will no longer be required to present a negative PCR Test if they present proof of Covid-19 vaccination. For passengers with no proof of COVID-19 vaccination, a negative PCR test taken no more than 72 hours prior MUST be presented upon arrival.

You should comply with additional screening measures put in place by the authorities. Keep up to date with information from your tour operator, transport or accommodation provider on the impact on any existing travel plans. Cameroonian government regulations on entry requirements may change at short notice.

Yellow Fever Certificate

There is a risk of Yellow Fever in Cameroon. Yellow fever vaccination certificate is required for all travelers aged 1 year and above.

PROGRAMME IN SUMMARY

Day 1: Wednesday 9 th November 2022	
Time	Session
7:00	Departure of buses from Hotel Mont Fébé to conference venue at IRIC - University of Yaoundé II located between 30 and 60 minutes from the hotel depending on traffic.
8:00 - 9:00	Arrival and registration (if not done at hotel the day before)
9:00 - 10:30	Official opening session (organized by the Local Organizing Committee - LOC) <ul style="list-style-type: none"> - Dr. Daniel Urban NDONGO - Director, IRIC - Chair, AfricaLics network, Prof. George Essegbey - Prof. Elizabeth Sarange Bosire Abenga, Director, PAUGHSS-PAU-ESTI - Professor Adolphe MINKOA SHE, Rector of University of Yaounde II - Minister of Scientific Research and Innovation, Cameroon - Minister of State, Minister of Higher Education, Cameroon
10.30 - 11.00	Break and group photo session
11.00 - 12.30	KEYNOTE ADDRESSES FROM CAMEROON Prof. Charles AWONO ONANA Prof. Roger TSAFACK NANFOSSO
12:30 - 14:00	Lunch including AfricaLics Alumni meeting
14:00 - 15:30	PAPER PARALLEL SESSION A (Session A1, Session A2, Session A3, Session A4 and Session A5)
15:30 - 16:00	Tea/health break
16:00 - 17:30	PAPER PARALLEL SESSION B (Session B1, Session B2, Session B3, Session B4 and Session B5)
17:30 - 18:00	Book presentations and announcements
18:00 - 20:00	Reception/Dinner hosted by the University of Yaoundé II/PAUGHSS – at the conference venue
20:00	Buses departing for Hotel Mont Fébé

Day 2: 10 th November 2022	
8:00	Buses departing from Hotel Mont Fébé for conference venue
9:00 - 10:15	THEMATIC SESSION A <ul style="list-style-type: none"> ▪ Thematic session A1: African innovation and development studies: The emergency of a new field. ▪ Thematic session A2: AIS and the promotion of innovation Ecosystems for Africa's development ▪ Thematic session A3: Making innovation in the STEM landscape more gender inclusive: policy limitations and barriers building on gender-disaggregated data from STEM studies in Ghana, Benin and Zimbabwe.
10:15 - 10:45	Tea break
10:45 - 11:45	KEYNOTE ADDRESS: KNOWLEDGE APPLICATION FOR ECONOMIC AND ENTERPRISE COMPETITIVENESS IN THE CONTEXT OF AFRICA'S DEVELOPMENT AND ECONOMIC TRANSFORMATION Speaker: Dr. Bosun Tijani, Co-Creation Hub, Nigeria & United Kingdom (UK)

11:45 – 13:15	PAPER PARALLEL SESSION C (Session C1, Session C2, Session C3, Session C4 and Session C5)
13:15 – 14:15	Lunch break
14:15 – 15:30	Plenary session How to influence Science, Technology and Innovation (STI) policy and practice in Africa.
15:30 – 16:00	Tea break
16:00 – 17:30	PAPER PARALLEL SESSION D (Session D1, Session D2, Session D3, Session D4 and Session D5).
17:45	Buses leaving from conference venue for Hotel Mont Fébé
19:00 – 21:30	Conference dinner at Hotel Mont Fébé – hosted by AfricaLics celebrating 10 years anniversary. (Dress code: African attire/ traditional dress)

Day 3: 11 th November 2022	
Time	Activity
8:30	Buses leaving from Hotel Mont Fébé for conference venue
9:30 – 11:00	PAPER PARALLEL SESSION E (Session E1, Session E2, Session E3, Session E4 and Session E5)
11:00 – 11:30	Tea break
11:30 – 12:45	KEYNOTE ADDRESS: SUSTAINABLE SYSTEMS OF INNOVATION AND ECONOMIC POLICIES FOR DEVELOPMENT: EXAMPLES FROM CENTRAL AMERICA Speaker: Dr. Olman Segura-Bonilla, CINPE-UNA, Costa Rica
12:45 – 14:15	Lunch break – including informal meetings (national LICs or other)
14:15 – 15:30	THEMATIC SESSION B <ul style="list-style-type: none"> ▪ Thematic session B1: Measuring innovation in the informal sector in Africa: theoretical and methodological considerations ▪ Thematic session B2: Future of work in Africa: the impact of the 4IR on GVC and Production System. ▪ Thematic session B3: Innovation systems in North Africa: from emergence to transformation
15:30 – 16:00	Tea/health break
16:00 – 16:45	Conference closing session – including briefing on future events, future of AfricaLics network (hub and spoke model) and vote of thanks by AfricaLics Secretary General, Dr. Ann Kingiri.
17:00	Buses leaving for Hotel Mont Fébé / participants leaving for airport etc.

PROGRAMME IN DETAIL

Day 1: Wednesday 9 th November 2022	
Time	Session
7:00	Departure of buses from Hotel Mont Fébé to conference venue at IRIC - University of Yaoundé II located between 30 and 60 minutes from the hotel depending on traffic.
8:00 - 9:00	Arrival and registration (if not done at hotel the day before)
9:00 - 10.30	Official opening session (being organized by the Local Organizing Committee - LOC) <ul style="list-style-type: none"> - Dr. Daniel Urban NDONGO - Director, IRIC - Chair, AfricaLics network, Prof. George Essegbey - Prof. Elizabeth Sarange Bosire Abenga, Director, PAUGHSS-PAU-ESTI - Professor Adolphe MINKOA SHE, Rector of University of Yaounde II - Minister of Scientific Research and Innovation, Cameroon - Minister of State, Minister of Higher Education, Cameroon
10.30 - 11.00	Break and group photo session (suggested timing of the break)
11.00 - 12.30	KEYNOTE ADDRESSES FROM CAMEROON Prof. Charles AWONO ONANA Prof. Roger TSAFACK NANFOSSO
12:30 - 14:00	Lunch including AfricaLics Alumni meeting
14:00 - 15:30	PAPER PARALLEL SESSION A PAPER SESSION A1: INCLUSIVE INNOVATION Chair: Prof. Geci Karuri-Sebina Discussant: Dr. Adeyemi <u>Oluwaseun</u> Adepaju Location: NB1 <ul style="list-style-type: none"> ▪ Co-learning in community engagement to tackle exclusion and local sustainability challenges <u>Alexis Habiyaremye</u> ▪ Rethinking Equity in Access to Farm Resources for Inclusive Development in Ghana <u>Monica Addison</u>, Prince Osei-Wusu Adjei, Camillus Abawiera Wongnaa, Bernice Wadie ▪ Gender, transformative innovation, and the 4th Industrial Revolution in Africa: Exploring Key attributes and characteristics of women operating in markers spaces in Nairobi, Kenya and Johannesburg, South Africa. <u>Pamela Mreji</u> PAPER SESSION A2: TRANSFORMATIVE INNOVATION Chair: Dr. Glenda Kruss Discussant: Prof. David Kaplan Location: NB2 <ul style="list-style-type: none"> ▪ Sustainability-Oriented Innovation in Africa: Conceptualizations, Policy, and Practice <u>Martin Mbaya</u>, John Mugabe, Jussi Jauhiainen

	<ul style="list-style-type: none"> ▪ Exploring the Relationship Between Corruption, Capabilities, Innovation and Development in Nigeria <u>Patricia Nonyelum Ugboma</u> ▪ Innovation to Business Opportunity Transformation (Entrepreneurship) Intention During the COVID-19 Pandemic: An Empirical Research with a Structural Equation Modeling Technique from Ethiopia. <u>Mulatu Tilhaun Gelaw</u>, Eshetie Berhan Atanaw, Gezahegn Tesfaye Dadi <p>PAPER SESSION A3: TECHNOLOGY MANAGEMENT Chair: Dr. Bitrina Diyamett Discussant: Dr. David Adeyeye Location: NB3</p> <ul style="list-style-type: none"> ▪ Effects of Technological Progress and Productivity on Economic Growth in Uganda: A Generalized Least Squares Approach <u>Jimmy Alani</u> ▪ Financial digitalisation: the role of self-efficacies <u>Samuel Danilola</u>, Adewumi Odeniran, Adewumi Otonne <p>PAPER SESSION A4: INNOVATION MANAGEMENT Chair: Prof. Desire AVOM Discussant: Dr. Yannick Fosso DJOUMESSI Location: AB1</p> <ul style="list-style-type: none"> ▪ Do education and vocational training lead to self-employment over wage employment? Evidence from the non-farm sector in India <u>Pradeep Kumar Choudhury</u>, Hrushikesh Mallick, Amit Kumar, ▪ Adoption d'Innovations et Compétitivité prix des entreprises en Afrique subsaharienne francophone <u>Andre Dumas Tsambou</u>, Benjamin Fomba Kamga <p>PAPER SESSION A5: INNOVATION AND SUSTAINABLE DEVELOPMENT Chair: Dr. Olman Bonila-Segura Discussant: Dr. Felix Ouko Opola Location: AB2</p> <ul style="list-style-type: none"> ▪ Frugal-secondary digital innovation for rural regions' development: insights from China <u>Fayaz Ahmad Sheikh</u> ▪ Endogenous Knowledge and Secondary Innovation in the age of COVID-19: A Global South Civilisational Dialogue <u>Ogundiran Soumonni</u>, Mammo Muchie ▪ Open Eco-innovation: Diversity and Intensity of External Knowledge Sourcing for Eco-innovation Typologies and Novelties <u>Morufu Muhammed</u>
15:30 - 16:00	Tea/health break

16:00 - 17:30

PAPER PARALLEL SESSION B

PAPER SESSION B1: INCLUSIVE INNOVATION

Chair: Prof. Abdelkader Djeflat

Discussant: Dr. Gregory Mvogo

Location: NB1

- **Les canaux de transmissions des effets de l'innovation digitale sur l'entrepreneuriat féminin en Afrique**
Song Jacques Simon, Ongo Nkoa Bruno Emmanuel
- **Innovation adaptative au changement climatique, déterminant et impact sur la productivité alimentaire des exploitations agricoles en zone soudano-sahélienne au Cameroun.**
Nelson Sergeo Tagang Tene
- **Paved roads, gender and youth unemployment in rural areas: Evidence from Sub-Saharan Africa.**
Patrick Marie Nga Ndjobo, Yves André Abessolo

PAPER SESSION B2: TRANSFORMATIVE INNOVATION

Chair: Prof. Erika Kraemer-Mbula

Discussant: Dr. Abiodun Egbetokun

Location: NB2

- **Actor's Function, Interaction and Power Relations in Improved Maize Variety Innovations in Ethiopia**
Daniel Nigussie, Getnet Alemu, Million Gebreyes
- **Skills Mismatch and the Dilemma of Organizational Capabilities in Selected Nigeria's Science, Technology and Innovation Institutions: The Need for Re-alignment**
Caleb Muyiwa Adelowo, Adekemi Oluwadare, Moses Ekperiware, Oluwatosin Ilevbare, Sunday Olotu, Maruf Orewole
- **Financement de l'economie et transformation structurelle dans la CEEAC**
NGUENKWE Bertrand

PAPER SESSION B3: TECHNOLOGY MANAGEMENT

Chair: Prof. Mammo Muchie

Discussant: Dr. Ogundiran Soumonni

Location: NB3

- **Assessment of technological capabilities of the informal foodservice operators in Oyo State**
Tawakalitu Funke Adedeji, Kehinde Adekunbi Taiwo, Matthew Ilori
- **Modernizing the Kenyan Electoral System through Polkadot Blockchain Network**
Richard Kyalu Mutuku
- **Influence of Mating Decisions on Conception Rates among Sahiwal Cows and Heifers on OvSynch and Fixed Time Artificial Insemination in the Southern Rangelands of Kenya**
Fredrick Odiwuor Agutu

	<p>PAPER SESSION B4: INNOVATION MANAGEMENT Chair: Prof. Nadine MACHIKOU Discussant: Dr. Oluseye Jegede Location: AB1</p> <ul style="list-style-type: none"> ▪ Differential Impacts of ICT on Small Scale Enterprise Productivity in Africa’s Emerging Markets <u>Musefiu Adebawale ADELEKE</u> ▪ Factors Affecting Firm-Level Innovation Activities in the Ethiopian Ecosystem <u>Abebaw Abibo</u>, Mammo Muchie ▪ Toward Locust Management: Challenges and Technological opportunities, Sikaunzwe, Zambia. <u>Brian Halubanza</u>, Jackson Phiri, Mayumbo Nyirenda, Phillip. O.Y Nkunika, Douglas Kunda <p>PAPER SESSION B5: INNOVATION AND SUSTAINABLE DEVELOPMENT Chair: Prof. Juliana Adimonye Ukonze Discussant: Dr. Fayaz Ahmad Sheikh Location: AB2</p> <ul style="list-style-type: none"> ▪ Systemic Barriers to Digital Learning Innovation in Universities – A Systematic Literature Review <u>Martin Mbaya</u> ▪ Post-COVID-19 recovery for African economies: lessons for digital financial inclusion from Kenya and Uganda <u>Regean Mugume</u> ▪ Adoption of water purification technologies in Ondo and Ekiti states, Nigeria <u>Abiodun Isaac Oyebola</u>, Christian Babalola Ayesanmi, Titilayo Olubunmi Olaposi, Funke Tawakalitu Adedeji, Makanjuola Emmanuel Ogunjemilua
17:30 - 18:00	<p>Book presentations and announcements Chair: Prof. Geci Karuri-Sebina Books</p> <ul style="list-style-type: none"> ▪ Djeflat, A. 2020 (ed.) « Le Management de l’Innovation et l’Apprentissage dans les entreprises algériennes » L’Harmattan, Paris, 227 pages ▪ Djeflat, A. et Bénaïssa, R. 2021 (ed.) « L’Economie de la Connaissance et le Développement Agricole et Rural: l’Expérience Algérienne » Les Editions Casbah – Alger – 259 pages ▪ Poverty Alleviation Pathways for Achieving Sustainable Development Goals in Africa (2020). ▪ Science, Technology and Innovation in BRICS Countries (2020). ▪ Engineering Design and Mathematical Modelling: Concepts and Applications (2020). ▪ Science, Technology and Innovation Indicators: Lessons from the Development Experience in Africa (2021). ▪ Solar Energy in Africa: Possibilities & Capabilities (2021). ▪ Innovation for Sustainable Integrated Development in Africa (2021). ▪ Indigenous Systems and Africa’s Development Paperback – March 15, 2021.

	<ul style="list-style-type: none"> ▪ Building Innovation Capabilities for Sustainable Industrialisation: Renewable Electrification in Developing Economies <p>Journals</p> <ul style="list-style-type: none"> ▪ Journal of Development, Innovation, Management and Savoir (DIMS) ▪ African Journal of Science, Technology, Innovation and Development ▪ Journal of Creativity, Innovation and Social Entrepreneurship ▪ Journal for Research and Innovation Foresight (JRIF)
18:00 - 20:00	Reception hosted by the University of Yaoundé II/PAUGHSS – at the conference venue
20:00	Buses departing for Hotel Mont Fébé

Day 2: 10th November 2022	
8:00	Buses departing from Hotel Mont Fébé for conference venue
9:00 - 10:15	<p>THEMATIC SESSION A</p> <p>Thematic session A1: African Innovation and development studies: The emergency of a new field. Organizer: AfricaLics Secretariat Location: NB1</p> <p>A review of the status of research and researchers in Africa working on issues studied within innovation studies highlights the opportunity for the development of a new field of research. This new field we term African ‘innovation and development studies’ or ‘I&D studies. The field is distinct from innovation studies and from development studies as researchers take methods and concepts from innovation studies (and often innovation systems thinking) and use these to tackle developmental problems affecting the African continent. Researchers are more likely to have an interest in mobilizing innovation for sustainable and just transitions, being focused on how innovation can address societal challenges.</p> <p>When AfricaLics was established 10 years ago, there was a limited number of researchers on the African continent working on innovation and development, but with increased attention to innovation as an important part of solving key challenges on the continent we are now approaching a critical mass of researchers on the continent in the field. Admittedly, many of the studies conducted are empirical in nature and have been made based on existing innovation theories developed in advanced and emerging economies. But the development of a cadre of researchers in the field provides options for addressing the critiques of innovation studies and its application to developing economies – thereby contributing to the development of more grounded theory on innovation and development issues in Africa for Africa.</p> <p>Purpose of the thematic session: This thematic session aims to present and discuss key findings from a yet unpublished article on the scientific roots of the field of I&D in Africa and how the</p>

field has developed over the past 15-20 years as well as some emerging priorities and ways forward in consolidating the field.

Panelists:

- Dr. Margrethe Holm Andersen (Chair) - AfricaLics Secretariat, Denmark
- Dr. Ann Kingiri - ACTS/AfricaLics Secretariat, Kenya
- Prof. Rebecca Hanlin - AfricaLics Secretariat/University of Johannesburg, South Africa.
- Prof. Abdelkader Djeflat - University of Lille/ MAGHTECH Network, France/Algeria
- Dr. Abiodun Egbetokun - NACETEM, Nigeria

Thematic session A2: AIS and the promotion of innovation Ecosystems for Africa's Development

Organizer: Africa Innovation Summit (AIS)

Location: NB2

The AIS is aimed at supporting Africans in their efforts to build robust innovation ecosystems to facilitate socioeconomic transformation. AIS has taken this path because the emergence of national innovation systems is crucial for ensuring resilience and sustainable development. As an innovation system in action, AIS brings together stakeholders and promotes collective actions in support of building well-performing, inclusive innovation ecosystems. In addition to bringing the stakeholders together and facilitating collaboration, AIS is building platforms to find and scale up innovations across the continent. The AIS platform brings together innovators, entrepreneurs, investors and people with the 'power to act' to direct resources towards solving Africa's developmental challenges. It also engages the scholars, researchers and civic actors to help frame the questions, steer means, and assess solutions.

Proposed Special Session

AIS proposes to host and facilitate a special session that would serve as:

- 1) **A Convening** of Quadruple Helix (Q4) participants to engage with scholars as well as to explore the future of AIS, and how best the AIS can serve as an enabling platform towards the emergence of robust innovation ecosystems for resilience and sustainable development in African countries and communities.
- 2) **A Launch** of the second AIS book: "Innovation Ecosystems Africa: Solving the problems that we have" edited by Olugbenga Adesida, Geci Karuri-Sebina, João Resende-Santos & Mammo Muchie; and
- 3) **A Facilitated Workshop** to facilitate inputs on the design of one of AIS's new flagship initiatives: the Africa-wide innovation ecosystem assessment/diagnostics studies.

Panelists

- Prof. Geci Karuri-Sebina (Chair) - South African Cities Network, South Africa
- Dr. Olugbenga Adesida - Africa Innovation Summit, Cabo Verde.
- Prof. Erika Kraemer-Mbula - University of Johannesburg, South Africa

	<p>Thematic session A3: Making innovation in the STEM landscape more gender inclusive: policy limitations and barriers building on gender-disaggregated data from STEM studies in Ghana, Benin, and Zimbabwe</p> <p>Organizer: The International Development Research Centre (IDRC)</p> <p>Location: NB3</p> <p>The sustainable development goals (SDGs) have largely been adopted by most countries as part of their 2030 development targets. However, in addition to the many difficulties already faced by most developing countries in attaining these goals, they are also experiencing emerging challenges such as COVID-19 pandemic, epidemics, various conflicts and so on. Mitigating and enhancing chances to overcome these challenges and reach national targets connected to the SDGs can hardly occur without adequate, innovative and resilient systems to solve complex problems. Such systems require sufficient and relevant human resources, including female and male scientists, researchers, technologists, engineers, as well as significant national investments. Yet, research has illustrated that due to an array of issues most developing countries quantitatively and qualitatively lack both women and men in most science, technology, engineering and mathematics (STEM) fields. However, the participation of women in these fields, when compared to men, is much lower. This panel session will explore the reasons for the limited representation of women STEM specialists in developing countries and how to improve this situation in the concerned countries. Panelists will do this by sharing findings from case studies done at universities in three sub-Saharan African countries, Benin, Ghana and Zimbabwe. Mechanisms to improve the participation of women in STEM fields, particularly in the higher education contexts, will be emphasized.</p> <p>Panelists</p> <ul style="list-style-type: none"> ▪ Dr. Mavis Akuffobe-Essilfie (Chair) - Council for Scientific and Industrial Research, Ghana ▪ Dr. Rose Omari - Council for Scientific and Industrial Research, Ghana ▪ Dr. Tèko Augustin Kouevi - University of Abomey-Calavi, Republic of Bénin ▪ Dr. Dominica Chingarande - University of Zimbabwe, Zimbabwe
10:15-10:45	Tea break
10:45 – 11:45	<p>KEYNOTE ADDRESS: KNOWLEDGE APPLICATION FOR ECONOMIC AND ENTERPRISE COMPETITIVENESS IN THE CONTEXT OF AFRICA’S DEVELOPMENT AND ECONOMIC TRANSFORMATION</p> <p>Speaker: Dr. Bosun Tijani, Co-Creation Hub, Nigeria & UK</p> <p>Dr. Tijani is one of Africa’s most prominent tech innovators and a civic organiser, mobilising a community of African Tech and Creative Entrepreneurs to engage with African Continental Free Trade Area (AfCFTA) to ensure domestic awareness, advocacy and beneficiation. He is founder and CEO of the Co-Creation Hub Nigeria (CcHUB), the iHUB Nigeria & Kenya, and the Design Lab, Kigali. He brings a very interesting mix of pan-African practitioner – academic perspectives into the practical (non-governmental) work being done on Africa’s development and economic transformation. He has a Bachelor’s degree in Economics; Master’s degree</p>

	<p>in Information Systems and Management from Warwick University; and a PhD, Innovation and Economic Development from the University of Leicester.</p>
<p>11:45 – 13:15</p>	<p>PAPER PARALLEL SESSION C PAPER SESSION C1: INCLUSIVE INNOVATION Chair: Prof. Susan Cozzens Discussant: Dr. Monica Addison Location: NB1</p> <ul style="list-style-type: none"> ▪ Impact of self-help groups on low-income rural communities in Ebussamba village in Western Kenya <u>Dolphine Caroline Anyango</u> ▪ Gender Analysis of Students’ Preferences and Interest in Engineering Career Options and Opportunities: Insights from Ghana. <u>Mavis Akuffobebe-Essilfie</u>, Rose Omari, Gordon Akon-Yamga, Harris Harris Andoh, Afua Sarpong-Anane, Sylvia Baah-Tuahenea, Rankine Asaboa, Elizabeth Hagana ▪ Social protection for informal sector practitioners in Harare: Opportunities and limitations <u>Vincent Itai Tanyanyiwa</u>, Lochner Marais <p>PAPER SESSION C2: TRANSFORMATIVE INNOVATION Chair: Dr. Glenda Kruss Discussant: Dr. <u>Natéwindé SAWADOGO</u> Location: NB2</p> <ul style="list-style-type: none"> ▪ Knowledge mobilization for maximized research impact in Centers of Research Excellence (CoREs) in selected countries in sub-Saharan Africa <u>Williams Nwagwu</u>, Bosire Onyancha, Tom Kwanya ▪ University as Anchor institutions: an innovative approach to local economic development or new wine in old wineskin <u>Samuel Fongwa</u> ▪ Does Collaboration Influence Research Productivity? Evidence from Nigeria <u>Oluwatosin Eniola Ilevbare</u>, Caleb Muyiwa Adelowo, Maruf Orewole <p>PAPER SESSION C3: TECHNOLOGY MANAGEMENT Chair: Prof. Germain Ntono TSIMI Discussant: Prof. Abdelkader Djeflat Location: NB3</p> <ul style="list-style-type: none"> ▪ Effet du mobile money sur la résilience des ménages exerçant des activités génératrices de revenus au Cameroun <u>Gregory Mvogo</u>, Christelle Awounang ▪ Direct and indirect impacts of ICTs on agricultural productivity in Sub-Saharan Africa <u>Louis de berquin Eyike mbongo</u>, Yannick Djoumessi Fosso

	<p>PAPER SESSION C4: INNOVATION MANAGEMENT Chair: Prof. Mammo Muchie Discussant: Dr. Rajesh Gopalakrishnan Nair Location: AB1</p> <ul style="list-style-type: none"> ▪ Impact of Adoption of Agroforestry Technologies among Smallholder Farmers in Nigeria <u>Adeola Olarewaju</u>, Opeyemi Ayinde ▪ Innovation performance of business-owners in the informal sector: A Gender Analysis in Nigeria. <u>David Adeyeye</u>, Festa Ndutimi Okrigwe ▪ An Analysis of innovation capabilities of micro-entrepreneurs in Nigeria. A Thematic Approach <u>Festa Ndutimi Okrigwe</u>, Leonard Ugi <p>PAPER SESSION C5: INNOVATION AND SUSTAINABLE DEVELOPMENT Chair: Prof. George Essegbey Discussant: Dr. Johnson Ojiyovwi Okorhi Location: AB2</p> <ul style="list-style-type: none"> ▪ The intervening effect of innovation capabilities on the relationship between talent management and organizational performance of Nairobi city County Government in Kenya <u>Ruth Wambui Wainaina</u> ▪ Enabling Inclusive Economic Ecosystems in Africa: Is there a role for city governments? <u>Stacey-Leigh Rizelle Joseph</u>, Geci Karuri-Sebina ▪ Nexus of Absorptive Capacity, Local Content Policy Implementation and Digital Technologies Innovation Capability in the Nigerian Upstream Petroleum Industry <u>Adeyemi Oluwaseun Adepoju</u>, Olabanji Olumide Amubieya
13:15 – 14:15	Lunch break
14:15 – 15:30	<p>PLENARY SESSION How to influence Science, Technology and Innovation Policy and practice in Africa. Africa is inspired globally and regionally by the UN - SDGs and AU's Agenda 2063, both of which have got STI implications. There is therefore a need to ensure that National STI policies steer both the UN and AU agenda. It is noted that the more STI-advanced the region is, the higher the GDP per capita. Further, countries with the least STI capacity have the least GDP per capita. Arguably, for STI policies to remain relevant and impactful in achieving the SDGs and AU's agenda, they should be focused on a number of key things:</p> <ul style="list-style-type: none"> ▪ Strengthening respective National STI Systems ▪ Inclusive collaborations and partnerships ▪ Enhanced participation of the private sector including the informal actors. ▪ Renewed government commitment towards funding of STI research and an inclusive policy regime

	<p>Considering that a one-size-fits-all strategy may not be feasible in the context of Africa, and the fact that capacity building in the development and use of STI will be required at different scales, this session will articulate the following broad questions:</p> <ul style="list-style-type: none"> ▪ How do we ensure relevance and impact of African STI policies towards achievements of the relevant global and regional agenda? ▪ Does Africa have STI capacity to generate localized evidence that is commensurate with challenges facing the continent including the growing population of youth and the important role of the informal sector in economic development? <p>The panelists, in accordance with their areas of research interest and expertise, will steer a discussion aimed at addressing the above questions. They will take the innovation systems approach as a starting point, recognizing that that institutional frameworks and local context are critical for STI policy development and implementation in countries under transition.</p> <p>Panelists</p> <ul style="list-style-type: none"> ▪ Dr. Bitrina Diyamett (Chair) - STIPRO, Tanzania ▪ Dr. Rahel Belete - Kilimanjaro Innovation Hub, Ethiopia ▪ Prof. George Essegbey – CSIR-STEPRI, Chair of the AfricaLics Board, Ghana ▪ Prof. Charles AWONO ONANA – University of Yaoundé II, Cameroon
15:30 – 16.00	Tea break
16.00 – 17:30	<p>PAPER PARALLEL SESSION D</p> <p>PAPER SESSION D1: INCLUSIVE INNOVATION</p> <p>Chair: Prof. Opeyemi Ayinde Discussant: Dr. Alexis Habiyaremye Location: NB1</p> <ul style="list-style-type: none"> ▪ Innovation and learning informal haircare businesses in South Africa <u>Nicole van Rheede</u>, Il-haam Petersen, Mbongeni Maziya, Setsoheng Maziya ▪ Resilience of Small and Medium Manufacturing Enterprises in Kampala, Uganda. The Business innovations a pathway <u>Faith Mugisha Ahabyoona</u> ▪ Informal Sector Innovation and Structural Transformation in Ghana <u>Yaw Adu-Gyamfi</u> <p>PAPER SESSION D2: TRANSFORMATIVE INNOVATION</p> <p>Chair: Prof. Erika Kraemer-Mbula Discussant: Dr. Oluyemi Adeosun Location: NB2</p> <ul style="list-style-type: none"> ▪ Business incubators and entrepreneurship developing in Africa’s innovation systems: a bibliometric review <u>Abiodun Egbetokun</u> ▪ Types, Sources and Challenges of Innovations in Nigeria’s ICT Hubs: Empirical Evidence <u>Abimbola David ADELOWO</u>

	<ul style="list-style-type: none"> ▪ An Economic Assessment of the Influence of Climate Change on Cocoa Production in Cameroon <u>Eric Jr Bomdzele, Ernest L. Molua</u> <p>PAPER SESSION D3: TECHNOLOGY MANAGEMENT Chair: Prof. Henri Atangana ONDOA Discussant: Dr. Morufu Sanni Muhammed Location: NB3</p> <ul style="list-style-type: none"> ▪ Technology use and farmers' welfare, what matters? A case of PICS in Benue State, Nigeria <u>Uzoamaka Asogwa, Opeyemi Ayinde</u> ▪ ICT adoption and the gender productivity gap in SMEs of Sub-Saharan Africa <u>Audrey Jennie DJIJO TIAKOU</u> ▪ ICT and health outcome nexus in Sub-Saharan Africa: A panel data analysis <u>Marie Esther ZANMAN, Karim Nchare</u> <p>PAPER SESSION D4: INNOVATION MANAGEMENT Chair: Prof. Daniel Kitaw Discussant: Dr. Oluwayemisi Abisuga Location: AB1</p> <ul style="list-style-type: none"> ▪ From start- up to scale- up: The motivators of SME owners to expand their business in developing economies <u>Oluayemi Theophilus Adeosun, Ngozi Ann Chikere</u> ▪ Agricultural information brokering in social networks: the case of banana value chain in Bunyangabu district, Uganda <u>Stella Kiconco, Kenneth Akankwasa</u> <p>PAPER SESSION D5: INNOVATION AND SUSTAINABLE DEVELOPMENT Chair: Prof. David Kaplan Discussant: Prof. Juliana Adimonye Ukonze Location: AB2</p> <ul style="list-style-type: none"> ▪ Energy consumption, environmental degradation, and economic growth nexus in East African Countries: Do economic transition and urbanization matter? <u>Kitessa Terefe</u> ▪ Energy mix and economic growth in Cameroon <u>Joël Fabrice Biloa, Pierre-Rolland Atangana, Henri Atangana Ondo</u> ▪ Toward an Inclusive Policy Framework for Spent Lithium Batteries Management: Anecdotal Strategies for Recycling Batteries in Nigeria <u>Johnson Ojiyowwi OKORHI, Johnson Oluwaseyi SHORIWA, Roland UHUNMWANGHO</u>
17:45	Buses leaving for Hotel Mont Fébé (from conference venue)
19:00 – 21:30	Conference dinner at Hotel Mont Fébé – hosted by AfricaLics celebrating 10 years anniversary. Dress code: African attire/ traditional dress

Day 3: 11th November 2022

Time	Activity
8:30	Buses leaving from Hotel Mont Fébé for conference venue
9:30 – 11:00	<p>PAPER PARALLEL SESSION E PAPER SESSION E1: INCLUSIVE INNOVATION Chair: Prof. Christopher NSOH Discussant: Prof. Susan Cozzens Location: NB1</p> <ul style="list-style-type: none">▪ Examining the Legitimacy of Inclusive Innovation Processes: Perspectives from Smallholder Farmers in Uasin Gishu, Kenya <u>Felix Ouko Opola, Laurens Klerkx, Cees Leeuwis, Catherine W Kilelu</u>▪ Adoption de l'engrais et des semences améliorées au Burkina Faso: déterminants et impact sur la sécurité alimentaire des ménages <u>Hamsatou AMADOU BOUBACAR, Lambert N'galadjo BAMBA, Pam ZAHONOGO</u>▪ Enhancing community innovation and Sustainable Development through Youth Engagement <u>Oscar Josiya Dzenga</u> <p>PAPER SESSION E2: TRANSFORMATIVE INNOVATION Chair: Dr. Oluyemi Adeosun Discussant: Dr. Samuel Fongwa Location: NB2</p> <ul style="list-style-type: none">▪ Firm Learning and Productivity in Nigeria's Manufacturing Sector <u>Foluso Modupe Adeyinka, Olufemi Adebola Popoola, John Olatunji Adeoti</u>▪ The Development of Statistics of Higher Education, Science, Technology and Innovation in Burkina Faso <u>Natéwindé SAWADOGO</u>▪ The effect of Firm Absorptive capacity on Learning by Importing: Mediation role of policy Induced Import Participation <u>Moges Adinew</u> <p>PAPER SESSION E3: TECHNOLOGY MANAGEMENT Chair: Dr. Pamela Mreji Discussant: Dr. Gregory Mvogo Location: NB3</p> <ul style="list-style-type: none">▪ Do ICTs Spur Global Value Chain Participation? Evidence from African Countries <u>Yannick Fosso DJOUMESSI</u>▪ Inclusion financière et accès à l'éducation au primaire dans les pays à revenu faible et intermédiaire: le mobile money importe t-il? <u>Eugène Bertrand Eloundou Okala</u>▪ Effet de la transition énergétique sur l'efficacité économique et environnementale en Afrique: rôle des innovations <u>Cyrille Dominick BITTING, Latifa TCHOUTO</u>

	<p>PAPER SESSION E4: INNOVATION MANAGEMENT Chair: Dr. Ogundiran Soumonni Discussant: Dr. Mavis Akuffobebe-Essilfie Location: AB1</p> <ul style="list-style-type: none"> ▪ The Role of Contractual Arrangement in Strengthening Systems of Innovation in Africa: Lessons from Tanga Dairy Innovation System in Tanzania <u>Heric Thomas Mtei</u> ▪ Integration of South Africa Construction Value Chain into the Global Value <u>Oluwayemisi Abisuga</u>, Mammo Muchie, Deon De Beer <p>PAPER SESSION E5: INNOVATION AND SUSTAINABLE DEVELOPMENT Chair: Dr. Rajesh Gopalakrishnan Nair Discussant: Dr. Bitrina Diyamett Location: AB2</p> <ul style="list-style-type: none"> ▪ Farmer Education Clinic as Innovation for Enhancing Effectiveness of Extension Services for greater Productivity and Sustainable Development in Nigeria <u>Juliana Adimonye Ukonze</u>, Johnson Ojiyowwi Okorhi ▪ Environmental Sustainability among Women Social Entrepreneurs: Insights from Kerala <u>Sandeep Kaur</u>, Johny Joy ▪ Evaluation of primary agricultural education training for pre-service teachers in Eswatini <u>Lungile Bahlalisile Tsabedze</u>, Prof. M. A Dube, Prof E. A Alademerin
11:00 – 11:30	Tea break
11:30 – 12:45	<p>KEYNOTE ADDRESS: SUSTAINABLE SYSTEMS OF INNOVATION AND ECONOMIC POLICIES FOR DEVELOPMENT: EXAMPLES FROM CENTRAL AMERICA Speaker: Dr. Olman Segura-Bonilla, CINPE-UNA, Costa Rica</p> <p>Dr. Olman Segura-Bonilla holds Ph.D. in Economics, emphasis on Innovation and Technological Change, from Aalborg University in Denmark. Professor of the International Center of Economic Policy for Sustainable Development (CINPE-UNA) of the National University; Former Cabinet Minister of Labour and Social Security of Costa Rica; President of the National Learning Institute (INA), a leading institution in technical education at the national; Rector of the National University of Costa Rica; President of the Superior University Council for Central America (CSUCA).</p>
12.45 – 14.15	Lunch break – including informal meetings (national LICs or other)

<p>14:15 – 15:30</p>	<p>THEMATIC SESSION B</p> <p>Thematic session B1: Measuring innovation in the informal sector in Africa: theoretical and methodological considerations</p> <p>Organizer: CeSTII-HSRC</p> <p>Location: NB1</p> <p>The importance of measuring innovation in Africa, for policy design, monitoring and evaluation, is now well recognized. Over ten years ago, innovation measurement using the Oslo manual was introduced and supported in African countries, as part of national efforts to promote STI, and continental efforts to produce internationally comparable indicators (AUDA-NEPAD, 2019). From the outset, there was extensive debate on how the standard instruments could be adapted to contexts with low levels of technological capability and industrialization, and major human development challenges.</p> <p>A concern for African countries, where large parts of national economies are informal, is that focusing measurement only on innovation in formal businesses potentially misses extensive innovation activity. Whereas measuring innovation in formal enterprises has evolved over decades through the iterations of the Oslo Manual (OECD/Eurostat, 2018), there is little international precedent for measuring innovation in informal enterprises. An important starting point for measurement is clearly defining what is being measured.</p> <p>This special session aims to stimulate discussion, to address the following questions:</p> <ol style="list-style-type: none"> 1. How suitable are the existing measurement frameworks and related instruments for the informal sector, considering that these have been designed for formal enterprises? 2. What alternative theoretical and/or methodological frameworks may be suitable for measuring innovation in the informal sector, with a view to generating results that are relevant for policy and practice? 3. What lessons can be learnt from current efforts to put together a measurement framework that responds directly to the need to understand innovation activity in the informal sector on the continent, and how can these be linked to existing measurement programmes of formal sector innovation? <p>Panelists</p> <ul style="list-style-type: none"> ▪ Dr. Glenda Kruss, (Chair) - CeSTII, South Africa ▪ Lukov Seke, AUDA-NEPAD ▪ Dr. Il-haam Petersen, CeSTII ▪ Isabel Bortagaray, Universidad de la República, Uruguay ▪ Mr. Gernot Piepmeyer, NCRST, Namibia ▪ Dr. Nazeem Mustapha, CeSTII, South Africa, ▪ Nicole van Rheede, CeSTII, South Africa. ▪ Dr. Abiodun Egbetokun NACETEM, Nigeria. ▪ Dr. David Adeyeye, NACETEM, Nigeria
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Thematic session B2: Future of work in Africa: Impact of 4IR on GVC and Production System.

Organizers: CeSTII-HSRC and Obafemi Awolowo University

Location: NB2

Structural transformation has led to a change in the way businesses now operate. Most businesses are increasingly becoming automated, phasing out low-skilled jobs but creating opportunities for some highly skilled positions. As a result, the labour-intensive/absorbing industries are far thinning while the technology/knowledge-intensive sectors rapidly expand. Today, the business world has already moved into the digital age where humans and machines interact to increase productivity. Indeed, conventional ways of doing work involving a large amount of human labor are phasing out gradually and increasingly being replaced by machines, robots, and software, amongst others. The fourth industrial revolution brings with it many advantages. One obvious benefit is increased productivity. Just as recorded in the previous industrial revolutions, the productivity of each industrial era went up significantly.

In this era of the fourth industrial revolution, only countries with a robust competitive edge can significantly benefit from the industrial revolution. The rise of global value chains on the other hand has revolutionized the way that production processes are carried out. Production is fragmented over different countries, leading to the creation of jobs and expansion of some sectors of the economy. The fourth industrial revolution technologies will significantly disrupt the patterns of global value chains (GVCs), which will, in turn, disrupts the production systems. Looking ahead, only countries with robust industrial policies and smart technologies will have a competitive advantage and be able to produce larger quantities at a much lower cost or accurately produce according to specification. Hence, the global production sharing will be redistributed among these countries that can use the fourth industrial revolution technologies. At the moment, Africa does not significantly participate in GVCs because of its low production capabilities, resulting from many other challenges.

This special session aims to stimulate discussion, to address the following questions:

- a) What are the foundational requirements necessary for the development of production capabilities in Africa?
- b) What are the channels of building capabilities for Africa to participate in global value chains?

Panelists:

- Dr. Oluseye Jegede (Chair) - CeSTII, HSRC, South Africa
- Dr. Caleb Adelowo - National Centre for Technology Management, Nigeria
- Dr. Adeyemi Oluwaseun Adepoju - Federal University of Technology, Akure (FUTA), Nigeria

	<p>Thematic session B3: From emerging Innovation systems to transformative innovation: what issues for North African Economies Organizer: MAGHTECH Network, Algeria Location: NB3</p> <p>The issue of Science and Technology (S&T) has attracted policy makers attention and to a lesser extent researchers for several decades in North African countries (NACs). However, innovation came into the agenda at the beginning of the 2000's in the academic arena and became of real concern of policy-makers in the last decade through political resolution and institutional reforms. Yet the reality shows that it did not translate effectively in real innovation dynamics as shown by scores and rankings of most innovation indicators of the countries. Their National Systems of Innovation (NSI) have been through long periods of construction and their mode of emergence appears to take a different path and trajectories from those of advanced countries. In other words, they need more appropriate emerging innovation policies (EIPs) to be able to impulse effectively innovation systems which could lead growth and employment and move the economies of the region out of the middle income trap.</p> <p>It is in this context of complex emergence phase that transformative innovation is taking place both as a new paradigm and a basis for new brand of policies, the transformative innovation policies (TIPs) that are addressed by scholars in various parts of the world. Therefore, Transformative innovation will face both needs to be addressed simultaneously: growth and development needs (driven by thriving industrial sector in particular) through the acceleration of the emergence stage, and climate change and inequality issues in North African economies.</p> <p>The aim of our panel is to bring some thoughts and empirical evidence on some of the issues raised above by examining different sectors: higher education; the mechanical sector and the digital sector. We also interrogate social innovation as a basis for both youth employment creation and inclusion. We further explore environmental innovation policy and energy transition in Algeria. The objective here is to analyse the determinants of environmental innovation at firm level where social responsibility and ethical concern make it easier to promote innovation towards achieving SDGs.</p> <p>Panelists</p> <ul style="list-style-type: none"> ▪ Prof. Abdelkader Djeflat (Chair) - University of Lille, France/Algeria ▪ Prof. Samah Souleh - University of Biskra, Algeria ▪ Prof. Samir Maliki - University of Tlemcen, Algeria ▪ Dr. Younes Ferdj - CREAD, MAGHTECH Network, Algeria ▪ Dr. Fatiha Beddek - University of Oran 2, Algeria ▪ Dr. Myriam Amghar ▪ Tin El Kadi-Ihsan - Doctoral student
15:30 – 16:00	Tea/health break
16:00 – 16:45	Conference closing session – including briefing on future events, future of AfricaLics network (hub and spoke model) and vote of thanks by AfricaLics Secretary General, Dr. Ann Kingiri.
17:00	Buses leaving for Hotel Mont Fébé / participants leaving for airport etc.

About AfricaLics

The African network of researchers in learning, innovation and competence building systems (AfricaLics) is the African regional network for researchers involved in innovation and development research with a specific interest in promoting learning, innovation and competence building systems approaches. For more information about AfricaLics, visit <https://africalics.org/>

Practical Information

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