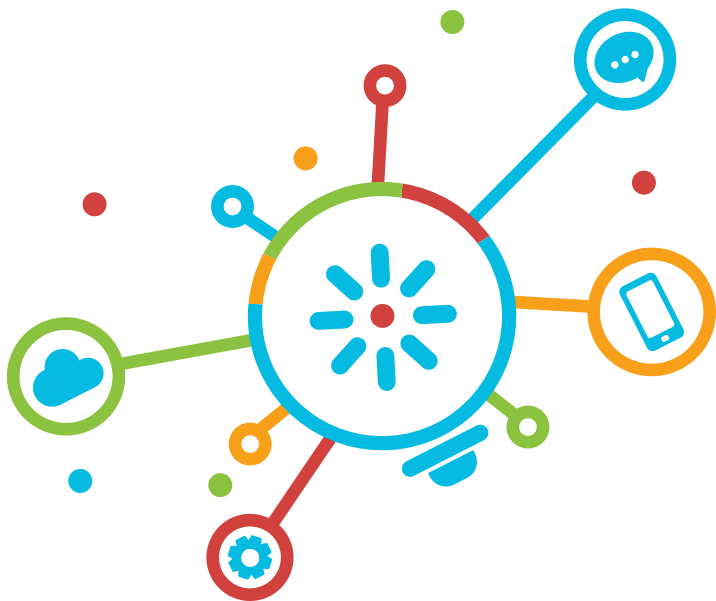


CONCEPT NOTE

ANNUAL  
**SYMPOSIUM**  
ON INTELLECTUAL PROPERTY, TECHNOLOGY & INNOVATION

# INNOVATION

& THE INTERNET OF THINGS



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Every  
company  
is a software  
company today

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Edgar Kasenene - CEO Retro Rabbit  
at the 1st Annual Symposium in 2018



## BACKGROUND

1.0

The theme for the 2019 conference is Innovation & The Internet of Things.

2.0

The Internet of Things (IoT) refers to the use of Intelligently connected devices and systems to harness data gathered by embedded sensors and actuators in machines and other objects.

3.0

IoT describes a system where items in the physical world, and sensors within or attached to these items, are connected to the Internet via wireless and wired Internet connections. These sensors can use various types of local area connections such as RFID, NFC, Wi-Fi, Bluetooth, and Zigbee. Sensors can also have wide area connectivity such as GSM, GPRS, 3G, and LTE [3].

4.0

At the core of IoT is aggregated data that can be used to improve all facets of life.

5.0

The 2 day Symposium (24th-25th October) will look at the latest IP rights within the Internet of Things and covering the impact it has on Innovation and development. Discussants will cover areas in Pharmaceutical, Big Data, Telecoms, ISPs, Banking, Insurance, Government, Energy and Automotive.

6.0

The proliferation of the internet has ushered in an age where we are all dependent on technology to carry out even the minutest of tasks. Consequently, industrialization has grown at a tremendous rate and with it, concerns about climate change and depletion of resources that are used to make these products.

7.0

It is thus important to have discussions on how to use technology and innovation for good & in a sustainable manner. Confronting these challenges requires political will as well as a new approach to utilize innovative technology not only for economic development but for the good of the human race.

8.0

The Internet of Things (IoT) essentially brings together advanced software with sensors and other end-devices on a communications network and if used the right way, can lead to a better & transformed Uganda, Africa & the world.

9.0

In fact, along with advanced data analytics, IoT-enabled devices and sensors are being used to do things such as reduce air pollution in some of our world's biggest cities, create smarter agriculture and food supply systems, even improve detection and containment of deadly viruses.

10.0

For example, in Barcelona, a citywide WiFi and information network linked to sensors, software and a data analytics platform, enabled the city to provide smart water technology, automated street lighting, remote controlled water irrigation in green spaces and water fountains, “on-demand” waste pickups, digital bus routes, smart parking meters, and more.

11.0

Collectively, the result of these IoT-enabled urban services have dramatically reduced traffic congestion and associated pollution as well as water, light and energy usage.

12.0

Chicago, in the United States of America is testing a city-wide, edge computing initiative with a network of sensors called “Array of Things” nodes installed throughout city streets. The nodes serve as a sort of “fitness tracker” for the city, collecting data on air quality, climate, traffic and other metrics before sending the information to an open data portal where user groups can consume it for range of applications.

13.0

In South Korea, the emerging smart city of Songdo is being built around expansive IoT networks designed to ensure its buildings, transportation system and infrastructure are as efficient as possible, helping to optimize its resources.

14.0

The IoT can also help cities improve public health. A recent study found dirty air and water led to a staggering 9 million deaths in 2015 alone. For this reason, cities with chronically unhealthy air, such as Delhi and Beijing, are beginning to leverage sensor networks designed to alert residents when particulate levels are dangerously high.

15.0

In London, a city where up to 9,000 deaths per year are attributed to air pollution. London-based Drayson Technologies has been testing the use of networked air quality sensors that are distributed to bicycle couriers and to a fleet of fuel-cell cars. The sensors, which transmit data to smartphones via Bluetooth, allow Drayson to create real-time maps showing air pollution levels around the city.

16.0

In Oakland, California, an environmental sensing startup called Aclima, partnered with Google, EDF and researchers from UT Austin to create a highly detailed block-by-block map of air pollution, using a fleet of Google Street View vehicles carrying specialized sensors. By expanding this model across cities, mobile technology using networks of sensors could help policy makers identify pockets of dangerous air quality in order to better regulate or eliminate the sources of that pollution.

17.0

In Agriculture which is the backbone of Uganda’s technology, IoT can be harnessed to develop smarter ways to increase crop yield and develop more drought resistant crops. In Israel for example, IoT has combined advanced cameras, sensors, weather stations and artificial intelligence, to help farmers respond quickly to signs of trouble such as crop disease, while also boosting productivity by as much as a third.

18.O

A professor at the University of California, Davis, Shrini Upadhyaya, devised a wireless sensor system to continuously monitor leaf health, which helps farmers know exactly where and how much they need to irrigate. And throughout rural Africa, startups such as Farmerline and ArgoCenta are using mobile technology and Big Data platforms to empower smallholder farmers who need access to market data quickly in order to cut waste, improve operations and digitize their supply chains.

19.O

In the medical sector, IoT has been used to help doctors gain faster access to health-related data from patients, collected through continuous monitoring and measurement. Wearable, internet-connected sensor devices that track heart rate, pulse, or even blood pressure are increasingly affordable, compact and accurate.

20.O

While there are serious concerns about how to best safeguard the collection and transmission of this data between patients and their doctors, and how doctors could best leverage it for insights into patients' health trends over time and between checkups, wearables are one of the most promising IoT applications in health-care.

21.O

Increasingly, technology is also helping doctors and other healthcare workers monitor the day-to-day well-being of patients who live independently. Sensors mounted throughout the home, or even in-home robotic assistants, can alert caretakers via text if, say, an elderly patient under their care has not taken his medicine on a given day, or left his bedroom by a set time.

22.O

In 2015, during the Ebola outbreak in West Africa, Scripps Translational Science Institute eased Ebola detection by using integrated sensors to track heart rate, blood oxygen saturation, respiration rate and temperature.

23.O

In cancer treatment, those that detect lumps at the earliest stand a better chance of suppressing the cancer. IoT has been used to track changes in temperature in breast tissue over time through non-intrusive sensors implanted in the breast.

24.O

The data is transmitted wirelessly to the user's mobile phone and shared securely with a patient's healthcare provider. By applying machine learning and predictive analytics to this data, doctors could identify and classify abnormal patterns indicative of early stage breast cancer.

25.O

In Uganda, Malaria is combated with the m-Health application to quickly and cheaply diagnose Malaria using mobile phones.

26.0

The possibilities for utilizing IoT are limitless. But, with internet penetration at 41% in Uganda, there is still a lot to be done to facilitate innovation. The Government has made taken commendable steps to improve penetration and spur innovation through projects like the NIISP National ICT Initiatives Support Programme (NIISP) to facilitate the creation of an ICT Innovation ecosystem and marketplace for Ugandan innovative digital products.

27.0

NIISP primarily aims at facilitating growth and development of the software applications and innovations industry.

## **FORMAT OF THE CONFERENCE**

27.1


The conference will take place at Speke Resort Munyonyo on 24th and 25th October 2019. The Conference will provide a unique opportunity for researchers, policymakers and development practitioners from Uganda and elsewhere, to explore Uganda's existing knowledge generation approaches and frameworks, the efficacy of its knowledge and innovation institutions in developing needed skills, technology and innovation capacities. It will look at the policies required in the areas of knowledge generation and innovation to achieve Uganda's transformation agenda.

27.2

The Conference will comprise a number of plenary sessions as well as break-out sessions that will feature presentations and discussions by prominent industry leaders, academics, regulators & policy makers, business actors (including emerging technological/digital entrepreneurs and the youth) and opinion leaders, as well as representatives from development partner organizations.

27.3

The break-out sessions will allow for more in-depth and technical analyses of salient issues arising from the thematic focus of the conference. The sub-themes suggested below will enable a broad range of discussions on the current state of Uganda's transformation capacity and generate valuable insights for improved policy making.

A black and white photograph of Veronica Sentongo, Head of Digital Banking at Stanbic Bank Uganda, speaking at a podium. She is wearing glasses and a dark blazer, and is gesturing with her right hand. The podium has a microphone and a nameplate that says "LEGACY".

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As we are digitizing  
we need to understand  
how we can keep the  
human element at the core  
of our interaction.

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Veronica Sentongo - Head of Digital Banking;  
Stanbic Bank Uganda.

# THE PROGRAM

DAY ONE

8:30-9:00am

**Registration & Networking Breakfast**

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9:00am-9:30am

**Key Note Address by David Blair, Chief Technology Officer, Andela**  
*"The Evolution of Technology: Solving the Global Tech Talent Shortage"*

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9:30am-10:00am

How to Build Internal Innovation Competency- **Rune Schanke Eikum, Senior Consultant - Tinkr**

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10:00 am - 10:30 am

**Artificial Intelligence & the Future of Business**

**Main Speaker: Lawrence Muthoga - Technical Evangelist 4Africa Initiatives (Microsoft 4Afrika)**

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10:30 am- 11:00 am

**Panelists**

*Ronald Kasendwa- Senior Software Manager, Eversend,*

*Maxime Dieudonne-Co- founder, Safe Boda*

*Nielsimms Sangho, Country Manager - Flutterwave, Paul Kotze - Head of Data Centre, JUMO WORLD*

Moderator: *Denis Aguma- Business Incubation/Manager/Lecturer Birmingham City University(UK) & Kingston University, London (UK)*

**Q&A**

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11:00 am -11:30am

**New legal Business Models in this Age of the Internet of Things**

**Panel Discussion**

*Brian Ndyaguma- Business Development Manager,*

*Hague Institute for Innovation of Law(HiiL), Gerald Abila - Founder, BarefootLaw,*

*Ridwan Oloyede- Associate Famsville Solicitors*

*Justice Geoffrey Kiryabwire- Justice of the Court of Appeal of Uganda*

*Linda Alinda Ikanza- Law Development Centre*

Moderator: *Raymond Assimwe-Founder, Bytelex Advocates/ ICT Cluster*

**Q&A**



**11:30am-12:00pm**

**The Era of Tech Disruption in Africa; Opportunities & Challenges**

Aaron Tindisega- Country Manager Uber,

Ron Kawamara- Managing Director Jumia Uganda,

Julie Benoist - Head of Network CDC Group,

Mable Kasente Ndawula - Partner Deloitte Uganda,

Kojo Boakye - Head Connectivity and Access- Facebook,

Moderator: Veronica Sentongo- Head Digitization & Innovation ICEA Lion Group

**12:00pm- 12:30pm**

**The Education System in this Fourth Industrial Revolution; is it Fit for Purpose?**

**Main Speaker: Hon Janet Museveni, Minister of Education**

**12:30-12:45pm**

**Panelists:** Dr. Krishna N. Sharma- Vice Chancellor, Victoria University

Godwin Matsiko -Legal Officer, Bridge International Schools,

Emma Naluyima - Founder, MST Junior Academy,

Brenda Mutesi- Marketing Manager, GEMS Cambridge International School

Moderator: Denis Aguma- Business Incubation/Manager/Lecturer Birmingham City University(UK) & Kingston University, London (UK)

**12:45- 1:00pm** Intentional Healthy Living

Phoebe Murungi- Sun Kissed Wellness

**Lunch 1:00pm – 2:00pm**

**2:10pm-2:40pm**

**Digital Marketing for the 21st Century; How to Optimize the Use of Digital Media to Grow your Business/Practice.**

**Main Speaker: Collins Mugume- Managing Director Blush Media**

Breakout Session- CWAG- *Training on Digital Forensics: The Science behind the Investigation and Prosecution of Digital Crimes (2:00-5:00 pm)*

Key Participants DPP's office, Judiciary through Judicial Training Institute, Financial intelligence Authority & Uganda Law Society

**2:40pm-2:55pm**

**Blockchain & Smart Contracts; How to efficiently leverage the power of blockchain**

**Main Speaker: Dr. Anthony Kakooza, Advocate, Sipi Law Associates.**

**2:55pm- 3:10pm**

**Panelists**

**Cryptocurrency: Has the Bubble Burst ?**

*Shaun Burrow*-Co- Founder & CEO, DeMars Ltd,

*Kwame Rugunda*- C.E.O, CryptoSavannah

*Leonard Businge*- Senior Associate, Kampala Associated Advocates

*Stuart Naturinda*-Trainer, Life Skills Digital Institute, *Rashmi Pillai*-Director of Programs

*Ag Executive Director, Financial Sector Deepening Uganda (FSD Ug)*

Moderator: *Robert Kirunda*-Partner, Kirunda, Wasige Advocates

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**3:10pm-3:40pm**

**Intellectual Property and the Digital Revolution; How can IP help Tech Start-ups Grow?**

**Main Speaker: Mr. Bemanya Twebaze, C.E.O, Uganda Registration Service Bureau (URSB)**

**Panel**

IP Cluster Uganda Law Society,

*Mr. Patrick J Mugisha* - Assistant Commissioner Innovation and IP Management - Ministry of Science

Technology and Innovation. *Steve Sudesh Kaka* - C.E.O Sudesh International Consult LTD,

*Timothy Mugume*- Country Manager Jumia, *Sunday G Ndamugoba*- Partner ABC Attorneys

Moderator: *Nankunda Katangaza*, Co-Founder, Hook Tangaza,

**QnA**

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**4:00pm**

**Closing Remarks**

*Joyce Nalunga*- C.E.O, Uganda Law Society

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**6:00pm - 10:00pm**

Networking event- performance by *Maurice Kirya*

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Every once in a while,  
a new technology, an  
old problem, and a big idea  
turn into an innovation.

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Dean Kamen

# THE PROGRAM

DAY TWO

**8:00am-8:30am**

**Registration & Networking Breakfast**

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**08:30am- 9:00 am**

**Opening Remarks CWAG**

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**9:00am - 10:00 am**

Remarks from **H.E Yoweri Museveni on, Skilling Africa's Youth to Compete on a Global Scale.**

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**10:00am - 10:30 am**

**A One on One with the Minister for ICT in Uganda- The role of Government in Facilitating the Growth of Technology & Innovation in Africa.**

**Main Speaker: Hon. Frank Tumwebaze**

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**10:30am-11:00am**

**Panelists discussing:** Broadband Policy, Uganda Internet Exchange Point, ICT Policy  
*Kenneth Bagarukaho*- Commisioner Ministry of ICT & National Guidance,  
*Stella Alibateese*-Director Regulation Legal Services, National Information Technology Authority (NITA) *Andrew Jombwe*- Member Executive Advisory Board, Tru iT,  
*Uganda VG Somasekhar*- Managing Director - Airtel Uganda, *Dr. James Kasigwa* - Director Regulation and Bio safety - Ministry of Science Technology and Innovation.  
Moderator- *Godfrey Serwamukoko*- C.E.O Iway Africa

**Q&A**

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**11:00-11:30am**

**Design Thinking: How to Remain Relevant in the Digital Age**

**Main Speaker - Edgar Kasenene, Retro Rabbit**

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**11:30am-12:00pm**

**Panelists discussing Broadcasting in the Digital Era**

*Rukshana Namuyimba*- Communications & Events Manager DFCU Bank,  
*Kin Kariisa*- C.E.O NBS TV/Next Media,  
*Susan Wegoye*- Commission Secretary/ Legal Affairs  
Uganda Communications Commission (UCC),

*Robert Kabushenga* Managing Director, Vision Group

Moderator: *Cedric Babu*- Head Corporate Communications, Uganda Broadcasting Corporation (UBC)

**Q&A**

**12:00pm – 12:30pm**

**Cloud Computing and Data Protection: How to Safely Leverage Big Data for Business Growth**

*James Byaruhanga-* Managing Director, Raxio Data Centre Rose Muturi- Tala Kenya

*Gerry Rasugu-* Director, GSM Association

Moderator: *Olukayode Onsusan-* Managing Director, Logix Technical Solutions

**Q&A**

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**12:30pm- 1:00pm**

**Investing in Start-Ups in Uganda; What Does an investor Look out For?**

**Panelists**

*Mr. Obong O. O DAvid - Permanent SectreAsafu Thomas-* The Harvest, CK Japeth- The Innovation Village,

*Inez Van Oord-* Managing Director Design Hub,

*Berna Mugema Turyagyenda-* National ICT Initiatives Support Programme(NIISP)

Moderator: *Karabo Nkoana-* Consultant, Pegasys Strategy & Development

**Q&A**

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**1pm- 2:00pm**

**LUNCH**

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**2:00pm- 2:30pm**

**Taxing Digital Assets: Social Media & Mobile Money Tax One Year Later**

*Kenneth Legesi -*Manager Corporate Finance, Deloitte Uganda,

*Doris Akol-* Commissioner General, Uganda Revenue

Moderator: *Stephen Tumwesigye-* Partner, TASLAF Advocates

**Q&A**

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**2:30pm-3:00pm**

**A one on session with Minister of Finance -**

**Trade Policy 3.0; in the wake of the AFCFTA, Realizing the Benefits of Trade Digitization.**

**Main Speaker: Hon. Matia Kasaija- Minister of Finance**

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**3:00pm – 3:30pm**

**Panel Discussion**

*Anja de Feijter* Evective Director, Allied Development Centre (ADC),

*Peter Muliisa-* Cheif Legal & Corporate Affairs Officer Uganda National Oil Company (UNOC)

Moderator: *Suleiman Kiggundu-* Regional Director for Africa, CDC Group

**Q&A**

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**3:30pm - 4:00pm**

### **Fintech and the future of Traditional Banking**

#### **Panel Discussion**

*Andrew Kabeera*- Chief Operating Officer, DFCU Bank,

*Edgar Byamah*-Executive Director, KCB Uganda, *Candy Okoboi*- Head of Legal/ Company Secretary, Stanbic Bank. *Wilbrod Humphreys Owor*- Executive Director, Uganda Bankers Association

*Teneyi Mawocha*- C.E.O Opportunity Bank Uganda

*Dr Louis Kasekende*- Deputy Governor, Bank of Uganda

Moderator: *Peter Kawumi* - Manager Competitive Strategies, Financial Sector Deepening Uganda (FSD)

#### **Q&A**

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**4:00pm - 4:30pm**

### **Understanding Digital Content Distribution in Uganda: Opportunities for Ugandan Creatives in the market, challenges & the Future**

*Maurice Kirya*- Artist, *Nyana Kakoma*- Author *Soo Many Stories*,

*Julius Kyazze* - C.E.O Swangz Avenue,

*Iredumaye Ojengbede Opeyemi* - Head Legal, Content Acquisition Boomplay Nigeria

Moderator: *Rudende Nkurunziza*- Media Personality

#### **Q&A**

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### **Closing Remarks**

**4:30pm**

**Hon. Justice Dr. Yorokamu Bamwine- Principal Judge**

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**6:00pm-10:00pm**

Networking.



Every once in a while,  
a new technology, an  
old problem, and a big idea  
turn into an innovation.

Dean Kamen



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The conference will have rapporteurs and the presentations will be reduced into a publication.



Tickets will be available online.



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