



More than 90% of projects across Africa are now driven by communication hence the growing importance of Information Communication Technology (ICT)

*-Lee Taaziva*



# ICT 2018

## 2<sup>nd</sup> ANNUAL INFRASTRUCTURE COMMUNICATION TECHNOLOGY AFRICA 2018

27<sup>th</sup> - 28<sup>th</sup> August, 2018  
Mövenpick Hotel & Residences  
Nairobi, Kenya



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# Speakers & Partners

**Mr. Julius Peter Torach**

Commissioner, Information Technology  
Ministry of Information, Communications, Technology  
and National Guidance, Uganda

**Mr. Nixon M. Gecheo**

Governance and ICT for Development (ICT4D), Universal  
Service Advisory Council  
Communications Authority of Kenya

**Mr. Amos Mjomba**

County Director ICT  
County Government of Taita Taveta, Kenya

**Mr. James Mukoma**

Director-ICT & e-Government  
Garissa County

**Mr. Darius Ogutu**

Director Policy, Partnerships and East Africa Community  
Affairs  
Ministry of Education Science and Technology, Kenya

**Mr. Vincent Koech**

ICT Systems Administrator  
Kenya Education Management Institute (KEMI)

**Mr. Lenya Jeremiah**

County Executive Committee Member  
Meru County Government, Kenya

**Mr. Peter Kahiigi**

Director e-Government Services  
National Information Technology Authority, Uganda

**Mr. Jonathan Misoj**

Chief Officer ICT & e-Government  
Nandi County Government, Kenya

**Mr. Joseph Kuria**

Director ICT Services  
Commission on Revenue Allocation, Kenya

**Ms. Claudette Irere**

Director General - Innovation and Business Development  
Ministry of Information, Technology & Communications,  
Rwanda

**Mr. Herbert Wamboko**

Head Information Technology  
Electoral Commission, Uganda

**Mr. Otieno Antony**

Chapter Secretary of Internet Society (Kenya Chapter)  
Internet Society (ISOC) Kenya Chapter

**Mr. Boniface Akuku**

Director of Information Communication Technology  
Kenya Agricultural & Livestock Research Organization  
(KALRO)

**Dr. Amit N. Thakker**

Chairman of the Board  
Africa Healthcare Federation, Kenya

**Ms. Millicent Olulo**

Country Director  
PharmAccess, Kenya

**Ms. Nduta G. Karanja**

Founder & Director - Programmes and Partnerships  
Digital Hands Africa

**Dr. Bright Mawudor**

Head of Cyber Security Services  
Internet Solutions - Kenya

**Mr. George Makori**

Chief Information Officer  
Postal Corporation, Kenya

**Mr. Amos Mulievi**

Head of ICT  
Agriculture and Food Authority (AFA), Kenya

**Mr. Bob Ochieng**

Manager, Stakeholder Engagement - Africa  
Internet Corporation for Assigned Names and Numbers  
(ICANN)

## Supporting Partner



**MINISTRY OF INFORMATION,  
COMMUNICATIONS TECHNOLOGY  
AND NATIONAL GUIDANCE**

## Exhibit Partner



**Hewlett Packard  
Enterprise**

## Endorsers

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# Day-1 | 27<sup>th</sup> August, 2018

**08:00 Registration**

**08:30 Opening and Welcome remarks from the Chairperson**

**09:00 ICT as a key enabler for Vision 2030**

- Need for a comprehensive policy, legal and regulatory framework
- Supporting ICT development, investment and application and promoting competition in the industry
- Ensuring affordability and access to ICT nationally
- Addressing issues of privacy, ICT legislation, cyber crimes, ethical and moral conduct, copyrights, intellectual property rights and piracy

**09:30 ICT Policy 2016**

- Ensuring sustained sector development for the next five years
- Policies covering infrastructure issues, applications and content creation
- Policy implementation initiatives, programmes and projects

**10:00 National Optic Fibre Backbone (NOFBI) Phase 2**

- Increasing the coverage and securing the existing transmission network
- Enabling the local government departments of the 47 counties to form an efficient transmission network with the central government
- 1,600km of fibre linking all the 47 county headquarters & an additional 500 km dedicated for military use
- Progress so far and subsequent steps

**10:30 Morning Refreshments and Networking Break**

**11:00 Constituency Digital Innovation Hubs**

- Supporting entrepreneurs and access to free Wi-Fi in all the 290 constituencies countrywide and other objectives
- Enhancing awareness and uptake of on-line platforms for employment and business opportunities
- Four innovation hubs in each of the 290 constituencies involving construction of 1,160 hubs across the country
- Cost and Funding
- Platform for self employment and making Kenya the next technological hub ensuring more employment in the country

**11:30 Cyber Security: Security Mechanisms and the way forward**

- Reducing cyber security risks by using cyber security tools and techniques
- Integration of cyber security in automation by Organizations and the associated challenges
- Pros and Cons of automated cyber security

**Mr. Vincent Koech, ICT Systems Administrator**

**Kenya Education Management Institute (KEMI)**

**12:00 Addressing Corporate Cyber Resilience**

- Moving away from Cyber Security to Cyber Resilience
- The right elements to consider when tackling Cyber Resilience issues
- Getting the board to understand elements of Cyber Risk

**Dr. Bright Mawudor, Head of Cyber Security Services**

**Internet Solutions - Kenya**

**12:30 Big data analytics: Understanding capabilities and potential benefits for healthcare organizations**

- Digitizing medical records and aggregate clinical data in huge electronic databases
- Making health data storable, usable, searchable, and helping healthcare providers practice more effective medicine
- Developing the Big Data Architecture for healthcare industry

**Mr. Boniface Akuku, Director of Information Communication Technology**

**Kenya Agricultural & Livestock Research Organization (KALRO)**

**13:00 Networking Lunch**

**14:00 The role of ICT in promoting Universal Healthcare**

- ICT Innovations in Health
- Affordable Health Care with ICT
- Eliminating fraud in medical health insurance

**Dr. Amit N. Thakker, Chairman of the Board**

**Africa Healthcare Federation, Kenya**



# Day-1 | 27<sup>th</sup> August, 2018

## 14:20 Artificial Intelligence and Machine Learning

- Necessity to pass data protection law to guide data collection
- Multiple ethical and social issues
- Concerns regarding redundancy of labour force and equipping people with the right skills and knowledge
- Risks associated with Artificial Intelligence

## 14:40 Internet of Things for future economic growth and sustainability

- Policy issues such as governance, privacy, and resilience/security
- Internet of Things-Application in various industries
- Technologies of the Internet of Things

**Mr. Otieno Antony**, *Chapter Secretary of Internet Society (Kenya Chapter)*

**Internet Society (ISOC) Kenya Chapter**

## 15:00 Refreshments and Networking Break

## 15:30 Big Data and cloud computing- “Big data in the cloud”

- Preferred IT solution
- Cloud computing to provide fundamental support and address big data challenges such as storing, transporting, processing, mining and serving the data
- Innovation opportunities and challenges

**Mr. Amos Mulievi**, *Head of ICT*

**Agriculture and Food Authority (AFA), Kenya**

## 16:00 Neural networks and Generative adversarial networks (GANs) - the gift of imagination for machines

- Artificial Intelligence as unsupervised learning
- Parsing large amounts of data more easily and more intelligently
- Advantages and disadvantages

## 16:30 Connect Africa Initiative

- Major fibre projects and brief description
- Absence of regional connectivity between States with access to the submarine cable and Regional Backbones Initiatives
- National Initiatives to overcome barriers in the widespread use of advanced communication services in regional member countries

## 17:00 Panel Discussion: Future of Africa and ICT in Government - ICT Infrastructure, Connectivity & Challenges

- Automation for value
- Impact of IoT technologies on the African digital economy
- Challenges faced by the Counties- ICT Infrastructure and Connectivity
- Digitization of Revenue Collection

**Mr. Bob Ochieng**, *Manager, Stakeholder Engagement - Africa*

**Internet Corporation for Assigned Names and Numbers (ICANN)**

**Mr. Amos Mjomba**, *County Director ICT, County Government of Taita Taveta, Kenya*

**Mr. Jonathan Misoi**, *Chief Officer ICT & e-Government, Nandi County Government, Kenya*

**Mr. James Mukoma**, *Director-ICT & e-Government, Garissa County*

**Mr. Lenya Jeremiah**, *County Executive Committee Member, Meru County Government, Kenya*

## 18:00 Closing Remarks and End of Day 1



# Day-2 | 28<sup>th</sup> August, 2018

**08:30 Registration and Morning Coffee**

**08:45 Opening and Welcome remarks from Chairperson**

**09:00 National ICT Master Plan**

- Facilitates e-government services that are simple to use and convenient for all
- Clearly identifies roles for both the public and private sectors in realizing the anticipated targets
- Strengthening the foundation for a knowledge-based economy
- Takes into account the local, regional and global changes that have an influence on the ICT sector

**Ms. Claudette Irere, Director General - Innovation and Business Development**

**Rwanda Ministry of Information Technology and Communications**

**09:30 Status of ICT Implementation in the Uganda Vision 2040**

- Need for a comprehensive policy, legal and regulatory framework
- Supporting ICT development, investment and application and promoting competition in the industry
- Ensuring affordability and access to ICT nationally
- Addressing issues of privacy, ICT legislation, cyber crimes, ethical and moral conduct, copyrights, intellectual property rights and piracy

**Mr. Julius Peter Torach, Commissioner, Information Technology**

**Ministry of Information, Communications Technology and National Guidance, Uganda**

**10:00 The success and Failure Factors of turnkey e-Government projects in developing Nations**

**Mr. Joseph Kuria, Director ICT Services**

**Commission on Revenue Allocation, Kenya**

**10:30 Morning Refreshments and Networking Break**

**11:00 Electronic Government services in Uganda - progress made thus far and lessons learned**

**Mr. Peter Kahiigi, Director e-Government Services**

**National Information Technology Authority, Uganda**

**11:30 ICT Innovations in Ugandan Elections**

- ICT innovations in place since the year 2000 and related success and failure factors
- Limitations due to the current political environment
- Future of ICT innovations in Uganda

**Mr. Herbert Wamboko, Head Information Technology**

**Electoral Commission, Uganda**

**12:00 Smart Cities – Transition towards developing and managing smart infrastructures**

- Understanding the integrated framework
- Minimizing transport needs, reduction in service delivery costs, and maximization of land use
- Benefits include reduction in city congestion, more space dedicated to recreational uses, enhanced service delivery, improving citizen's quality of life
- Challenges during and after development
- Internet of Things -heart of smart city transformation
- Smart Grid-Anchor of the Smart City

**12:20 Smart Transportation for Smart Cities**

- Intelligent Transportation Systems (ITS)
- Mobility as a service (MaaS)
- Self driving smart automobiles
- Components of Smart Transportation

**12:40 Fintech and Financial Inclusion**

- Digital disruption to increase the continent's banked population
- Potential of new technologies in financial services
- Policies for promoting development and adoption of innovations helping the continent achieve the World Bank target of universal financial access by 2020



# Day-2 | 28<sup>th</sup> August, 2018

## 13:00 Networking Lunch

## 14:00 Policy Landscape governing ICT integration in the Education Sector

**Mr. Darius Ogotu**, *Director Policy, Partnerships and East Africa Community Affairs*  
Ministry of Education Science and Technology, Kenya

## 14:20 Educating and empowering the youth with technology

- Some of the ICT Initiatives - eLearning and Skills development Projects
- Anticipating and matching skills demand and supply, fulfilling gaps through adequate training
- Innovation and New Solutions for Education

**Ms. Nduta G. Karanja**, *Founder & Director - Programmes and Partnerships*  
Digital Hands Africa

## 14:40 Blockchain – Beyond Bitcoin

- Disruption in traditional financial markets
- To be adopted for trade financing, syndicated loans and international payments
- Solution to set-up a shared digital utility to record customer identifies
- Overcoming some obstacles in the Fintech landscape such as protection against identity theft and opening up global economies into an integrated 21st century economy
- Security, transparency and efficiency perspective
- Realising the true potential and benefits

## 15:00 Refreshments and Networking Break

## 15:30 Connected Aerospace

- Better in-flight entertainment and communication
- Revolutionizing airline operations, improving fleet management, flight safety, passenger experience, maintenance, flight operations, aircraft turnaround time and costs
- Growing prevalence of broadband and satellite-based connectivity options - allowing airlines and operators to capture data about the health of critical avionics, systems, and aircraft components in-flight
- Better maintenance scheduling and health trend monitoring of aircraft fleets

## 15:50 Africa: the next ecommerce revolution

- Connectivity rates increasing across the continent
- Mobile wallet three times more than the number of Africans with bank accounts
- Africa, the centre of the mobile money market-Kenya leading the way
- Formulating strategies to leverage the opportunity

## 16:10 Creating Impact of ICT in Africa

- Realizing business and socioeconomic development
- Information acquisition and knowledge dissemination
- Facilitating new innovations

**Mr. Nixon M. Gecheo**, *Governance and ICT for Development (ICT4D), Universal Service Advisory Council*  
Communications Authority of Kenya

## 16:30 Development in Telecommunications

- Disruption in telecommunications industry as a result of AI-based technologies
- “White-spaces device” (WSD) to transmit signals for Internet connectivity and improve the availability of broadband Internet and Wi-Fi in rural areas
- AI as a ‘key enabler’ of next-gen wireless technology

## 17:00 Future of Africa: ICT Integrated Industries

- Leveraging eHealth to improve health systems
- Connected Transport and Aviation- well connected Africa
- Reshaping Education through eLearning -reshaping Africa
- Ecommerce-crossing borders of time and distance
- FinTech-seamlessly integrating technology to offer financial services

## 17:30 Closing Remarks and end of the conference



# MORE ABOUT THIS CONFERENCE

**Bricsa Consulting** takes great pride in organising **2<sup>nd</sup> Annual Infrastructure Communication Technology Africa 2018** - a 2 day large scale event scheduled to be held on the **27<sup>th</sup> and 28<sup>th</sup> of August, 2018** at **Mövenpick Hotel & Residences Nairobi, Kenya**

Under the Vision 2030, the country aims to become a knowledge based economy and the ICT sector acts as a key enabler for the goals and aspirations of that Vision and also as a catalyst for other sectors' development. Considering the spending capacities of the average African, digital literacy, the Socio-Economic, Technological and Political environment and other variables, our conference talks about:

- Infrastructure issues, application and content creation, and gives insights on policy implementation initiatives, programmes and projects.
- The government initiatives to increase accessibility and communication to improve service delivery.
- How the ICT sector impacts on Kenya's GDP and why there exists a need for a comprehensive policy, legal and regulatory framework.
- The support by government and private entities in ICT development, investment and application of new technology in healthcare, education, oil & gas, financial services, aerospace and e-commerce.
- Issues of privacy, cybercrimes, ethical and moral conduct, copyrights, intellectual property rights and privacy.
- Developments due to ICT and to explore the opportunities for expansion in the region.

**Bricsa Consulting** is involved in hosting industry specific conferences and currently our focus area is infrastructure and transportation, which is one of the key priorities in terms of large scale development across emerging markets. We have successfully executed conferences in Malaysia, South Africa, India, Saudi Arabia, Qatar, UAE, Kenya and Vietnam while we are exploring some of the upcoming emerging markets like Nigeria, Ghana, Tanzania, Oman, Myanmar among others.

Our conferences are extensively researched and all efforts are put forward to highlight current projects in the respective regions. The audience is a mix of Ministries, Government Agencies, Development Banks, Financial Institutes, Infrastructure Developers and Construction Companies, Consultants and Architects, etc. with a goal to create a practitioner focused platform and making it a leading global meeting place for the Rail Infrastructure and Investment community.

#### Key benefits of attending:

- Meeting the demands of the upcoming market of ICT.
- Improving the strategies to create a new demand of ICT.
- Developing an understanding of educating and empowering the youth with technology.
- Understanding the emerging needs and trends in the Infrastructure communication Technology sector.
- Developing a knowledge about various aspects of ICT in regards to 'Big data', 'Cloud Computing', 'Artificial intelligence', 'Blockchain' and many more.

#### To Become a Sponsor:

By becoming a Sponsor, your company will be given the best possible opportunities to position yourself to the worldwide industry. You will have access to some of the most influential decision-makers and potential business partners who will be playing an integral part in shaping the future of the industry.

Making an investment in these conferences will help your company to attract business and if you make the most of the sponsorship opportunities we offer, you will see an incredible return on your investment.

#### Who should attend :

- Chief Digital Officer
- Chief Data Officer
- Chief Executives
- Chief Information Officers
- Chief Technology Officers
- Strategy and data innovation director
- IT Directors
- Head of Cloud Services
- Data engineers
- Cyber security data scientist
- Specialists in analytics and digital transformation
- Lead data scientist
- Data Security Managers
- Directors of Commissioning
- Directors of Procurement
- Enterprise Architects
- Technical executive- AI, IoT, Big data, Blockchain
- Head of digital innovation
- Heads of Data
- IT specialists
- Heads of ICT Transformation
- Heads of Information Assurance
- Heads of IT
- Heads of Programmes
- Heads of Shared Services
- Heads of Strategy
- Heads of Technology

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