

# MSc in Spectrum Management

**ITU-Academia Partnership Meeting**  
Budapest 19<sup>th</sup> -21<sup>st</sup> September 2017

Dr Joseph Sevilla  
@iLabAfrica Director  
Strathmore University  
Nairobi – Kenya

[jsevilla@strathmore.edu](mailto:jsevilla@strathmore.edu)



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UNIVERSITY

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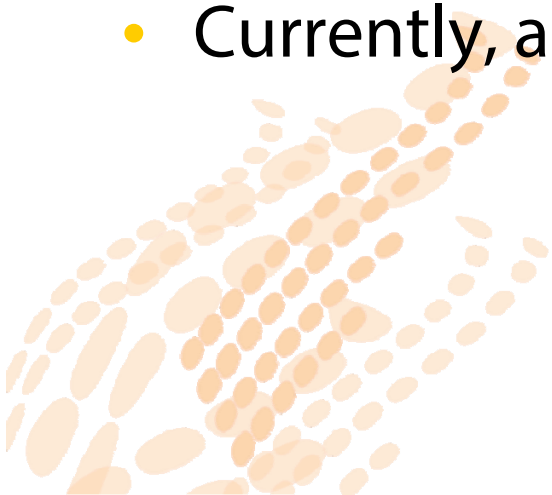
**iLab**  
Africa

# Strathmore University

- Private University in Nairobi (Kenya)
  - Founded in 1961 as an A-Level College
  - Letter of Interim Authority as a University in 2002
  - Received Charter by the Government in 2008
- Currently about 6,000 students
- Courses in:
  - ICT, Telecommunications, Engineering (2018)
  - Business, Management and Accountancy
  - Law, Humanities
  - Tourism and Hospitality

# @iLabAfrica

- @iLabAfrica is a IT centre of excellence in Research and Innovation
  - Established in January 2011 under the Faculty of Information Technology at Strathmore University.
- Self-funded with a strong support from industry partnerships.
- Currently, about 80 staff members.



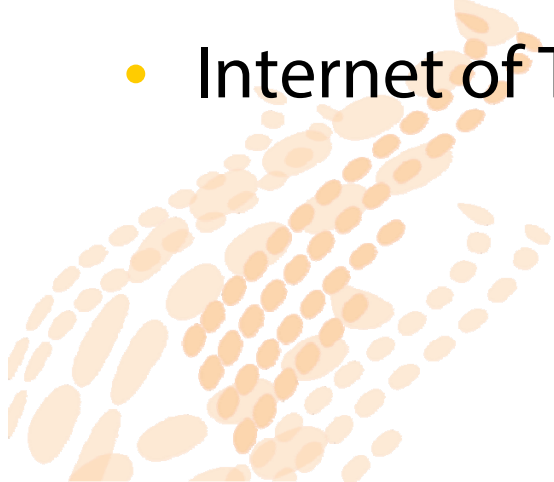
# @iLabAfrica Focus

- ICT Research & Innovation.
- Entrepreneurship & Incubation.
- ICT Business Development/Outsourcing.
- ICT Policy Research.
  
- Work with Government and Industry to provide an environment that promotes technological innovation and business support structures to harness the potential of ICT as a genuine tool for sustainable development.
- Bridge the gap between Industry and Academia.



# @iLabAfrica Research Groups

- eHealth
- Digital Learning
- Cybersecurity
- Digital Advertising
- Business Development, Outsourcing and Consultancy
- Data Sciences – Analytics
- Internet of Things (IoT)



# Academic Programs

## **MSc. Mobile Telecommunication and Innovation**

- The Safaricom Academy is a partnership with Safaricom aimed at addressing the technical needs of students and entrepreneurs who wish to build careers in mobile applications development.

## **MSc. Information Systems Security**

- Run in collaboration with global and local key players in IT Security industry, to close the human resource gap.

## **MSc. Data Sciences** *(in progress)*

- In collaboration with SAS, IBM, SAP, Microsoft, Oracle, Dell-EMC

## **MSc. Spectrum Management** *(in progress)*

- In collaboration with ITU and Afralti.

## **Challenge-based Post-Grad training in collaboration with Industry Partners** *(in progress)*

# Professional Training

- A large variety of courses aim at closing the skill gap and introducing new technologies.
- Organised in collaboration with industry: IBM, Oracle, SAP, Cisco, SAS, EMC, Google, Microsoft.
  - Cybersecurity training – CEH, LPT, Forensics.
  - Digital Advertising – Google.
  - Mobile App Development.
  - Data Science, Big Data, Analytics – SAS, IBM, Oracle.
  - Cloud Computing – Dell–EMC.
  - Internet of Things (IoT) – IBM, Oracle, Cisco.
  - SAP – Dual Training Programme and ESEFA.
- Help undergraduate and master students acquire cutting-edge skills even before new technologies are incorporated into their syllabus. Provide in-depth practical skills that complement coursework.
- Address non IT technical skills such as project management.

# @iBizAfrica–Business Incubator

- @iBizAfrica is the Business Incubator at Strathmore University run by @iLabAfrica.
- Logical step to support innovation and entrepreneurship among the students that we train.
  - Provides incubation space and a variety of programmes for young entrepreneurs including business, financial, marketing and legal mentorship.
  - Offers access to seed funding via our network of Venture Capitalists and Donors.
  - Has become a centre for both local and international start-up incubation and acceleration programs.





# AFRALTI

- African Advanced Level Telecommunications Institute (AFRALTI).
- Inter-Governmental Institute established in 1993 to supplement and spearhead ICT development efforts mainly in English-speaking Africa.
- Member States that have ratified the Intergovernmental Agreement (IGA) include: Angola, Kenya, Malawi, Mozambique, Swaziland, Tanzania, Uganda and Zimbabwe, out of the 23 eligible members.

# MSc in Spectrum Management

- Collaboration between ITU, Strathmore University and Afralti.
- Expression of Interest by @iLabAfrica to deliver SMTP.( your letter to BDT Director Brahima Sanou as requested (2/8/2016))
- Ongoing discussions with ITU on a Cooperation Agreement



# Collaboration Highlights

- The MSc will be offered by Strathmore only.
  - Not "in partnership" with other entities.
  - Not a "joint degree".
  - Graduates will be SU graduates, not graduates from other institutions.
- Strathmore will seek approval from the Commission of University Education (CUE).
  - There is no need for either ITU or Afralti to seek local recognition for CUE.
- Syllabus aligned with SU and CUE requirements.

# Relationship with ITU

- Strathmore collaborates with ITU to seek their technical assistance in developing the syllabus.
  - MSc Syllabus is aligned with ITU's Spectrum Management Training Programme (SMTP).
- Strathmore will agree with ITU on a royalty/license fee to use their syllabus elements and teaching materials and resources.
- Strathmore seeks ITU to endorse/approve the MSc syllabus as being aligned with their technical requirements.

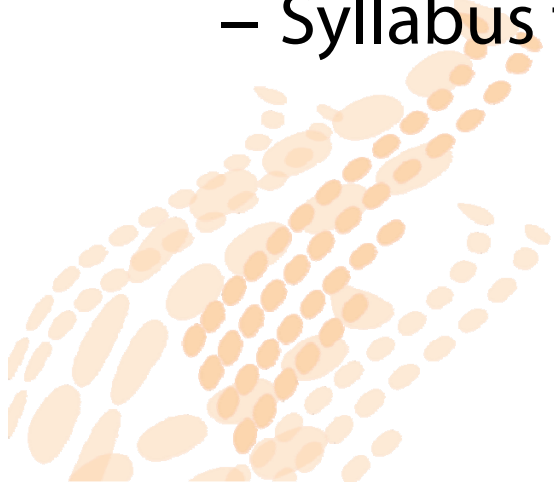
# Relationship with Afralti

- Strathmore and Afralti signed an MoU to agree on the terms of their collaboration.
  - Strathmore collaborates with Afralti through the sharing of lecturers and/or facilities as required.
  - Lecturers contracted to teach in this course will need to be approved by SU and meet the standard SU requirements.
  - Afralti will share on the course revenues.



# Current Status

- Syllabus almost completed by Committee of Experts (Strathmore and Afralti).
  - Stakeholder's Meeting to be scheduled in October 2017. Feedback to be incorporated.
  - Syllabus to be approved by the Faculty of Information Technology Board, School of Graduate Studies and Academic Council.
  - Syllabus to be approved by CUE.



# Course Delivery

- The MSc in Spectrum Management will be delivered via video-conferencing.
  - Supported by eLearning site (Strathmore/ITU).
  - Physical facilities (SU/Afralti) available to students (if required).
- Lecturers will be sourced from Strathmore, Afralti.
  - Worldwide experts will be invited where gaps exist to lecture via video-conferencing.
- Examinations
  - University regulations to be followed.
  - Physical presence required at SU/Afralti.

# Industry Partners

EMC<sup>2</sup>

Google

IBM

SAMSUNG



ORACLE



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# Industry Partners



# Academic and Research Partners



# Government Agencies



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Dr. Joseph Sevilla  
Director - @iLabAfrica  
Strathmore University



Strathmore Student Centre Building  
(4<sup>th</sup> Floor),  
Keri Road, Madaraka Estate,  
Nairobi, Kenya.



Tel: +254 722 205428/  
+254 733 618135  
Email: [jsevilla@strathmore.edu](mailto:jsevilla@strathmore.edu)



Website: [www.ilabafrika.ac.ke](http://www.ilabafrika.ac.ke)  
[www.strathmore.edu](http://www.strathmore.edu)



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# THANK YOU



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