

Seminar on Data Science Campus activities in Kigali

Purpose

Big Data is by definition different from traditional data sources currently used by national statistical systems (NSSs) requiring the development of new methodologies together with upgrading of quality assurance framework, technology, security, privacy and legal matters. This means that new skill sets and competencies are necessary. Some of which could be hired temporarily, others will need to become an integral part of the institution. Data science is one of those new competencies. It is likely that the staffing table of statistical institutions will show quite a few data scientists and data engineers in the near future.

This seminar offers insights into activities at Data Science Campus and their training opportunities. It will consist of lectures, project presentations and hands-on demonstrations.

Presenters

Date: 29 April -1 May 2019

Venue : Data Science Campus, Kigali, Rwanda

Programme

Day 1 Data Science and Official Statistics

9:00 **Welcome** – Ronald Jansen, UN Statistics Division

What is the UN Global Platform and how does it work?

Presenters: Mark Craddock, Gavin Phillips and Joe Peskett (all ONS, UK) and Ross Bernet (Azavea)

- Intro and overview (Mark)
- Roadmap, marketplace, location service (Gavin)
- Methods service (Joe)
- Earth observation service (Ross)
- Q&A

11.15 **New paradigm for compiling official statistics**

Presenters: Prof. Dr. Diego Kuonen (remotely) and Prof. Dr. Bertrand Loison, FSO Switzerland

- Analytics of Things
- Data Innovation Strategy

12.30 Lunch

13.30 **Building Capacity at ONS Data Science Campus and beyond**

Presenter: Tom Smith, ONS, UK, and Ceri Regan, ONS, UK

See <https://datasciencecampus.ons.gov.uk/capability/>

Mapping the Urban Forest on the Global Platform

Presenters: Joe Peskett, ONS, UK, and Ross Bernet, Azavea

15.15 Break

15:30 **AIS Vessel tracking data**

Presenters: Gavin Phillips, ONS, UK, Ronald Jansen and Markie Muryawan, UNSD

Trade Statistics and SDMX on UNGP

Presenter: Markie Muryawan, UNSD

17.00

Close

Day 2 Earth Observation projects and Capacity development opportunities

9.00

Projects using EO data

Environment statistics using EO data

Presenter: Jillian Campbell, UNEP

Agriculture statistics using EO data

Presenter: Artur Łączyński, Statistics Poland

Environment indicators using EO data

Presenter: Mr. Jean-Pierre Gatera, Esri Rwanda

FAO work on geospatial applications for agricultural statistics

Presenter: Dominique Habimana, FAO

Innovation Lab

Presenter: Rafik Mahjoubi, African Development Bank

12.30 Lunch

13.30

Capacity development opportunities

Task Team on Training, Competencies and Capacity Development

Presenter: Dominik Rozkrut, Statistics Poland

NISR Data Science Campus

Presenter: Ivan Murenzi, NISR Rwanda

African Centre for Statistics

Presenter: Molla Hunegnaw Asmare, UNECA

Managing data innovation in African NSOs

Presenter: Rajiv Ranjan, Paris21

Consultancy services for Capacity Development

Presenter: Ibtissam Sahir, GOPA

17.00

Close

Day 3 Human Mobility and other projects

9.00

Data Science, AI and Machine Learning projects

Estimating Urban Statistics with AI

Presenter: Martin Gordon Mubangizi, UN Global Pulse, and Bernard Justus Muhwezi, UBOS

Migration research in Namibia using Mobile Phone data

Presenter: Dr. Shingjie Lai, University of Southampton & Flowminder

Linking Aid to the SDGs: a Machine Learning approach

Presenter: Arnaud Pincet, OECD

12.00

Close of Seminar