

# 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. Shengjie Lai, University of Southampton & Flowminder

#### **Linking Aid to the SDGs: a Machine Learning approach**

Presenter: Arnaud Pincet, OECD

12.00

**Close of Seminar**