



Use of electronic data collection technologies: *main drivers and decision-making process*

By:

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Outline



- UBOS and its Mandate
- UBOS Journey
- Key Drivers
- Challenges
- Looking ahead



Uganda...

- Official Name:
 - Republic of Uganda
- Official Language:
 - English
- Total Area:
 - 241,550 km²
- Population:
 - Census 2014: 34.6M
 - 2018 Projection: 39M
- Population density:
 - 173 /km²



UBOS and its Mandate



- Semi-autonomous body formed by the Uganda Bureau of Statistics Act, 1998
- The **Principal data collecting and disseminating agency** responsible for coordinating, monitoring and supervising the National Statistical System.
- **Source of official statistical information.**
- Conduct censuses and surveys, and collect routine administrative statistics
- **Organise and maintain a central depository** of Statistical reports, publications, documents and data

UBOS Journey -

Pre and in
1990's

- All Census and Surveys using PAPI, with manual data entry

2012/14

- Census and Surveys were PAPI,
- Scanning technology used for data capture for Census and UNHS

2016

- Transition from PAPI to CAPI for most surveys using Handheld mobile devices
- Increased integration of GIS / Geo-Spatial technologies

2018

- Piloting citizen self-interview on selected surveys
- Piloted BYOD for data collectors

2020 Round
of Census

- Planning to use mainly CAPI
 - PAPI with scanning for a few selected areas

Key drivers

- Process Turn around time
- Data Management
- Data quality
 - Various data types (Form + GPS + pictures + videos + string + numeric + audio + barcodes)
 - Error reduction, integrated quality checks
- Data security
- Deployment flexibility
 - Update to data capture tool can be real time (or close to real time)
- Improved field operations
 - Real time monitoring, reduced complexity of management questionnaires, control forms, transportation to districts and to Lower local Governments
- Para-data
- Staff management and welfare
 - workforce for data capture and processing, reduced carrying load for staff.





Challenges

- Cost of equipment
- Skill set
 - Technical staff
 - Field staff – data collectors
- Project management
 - Expectations
 - Roles (Subject matter Vs ICT)
 - Risk response strategies (delayed procurement, delayed procurement, data entry plans for paper, system failure)
- Change Management
- Power and Connectivity
- Device Management and handling
- Device standardisation vs Data quality (eg. GPS, batteries, processor, storage)

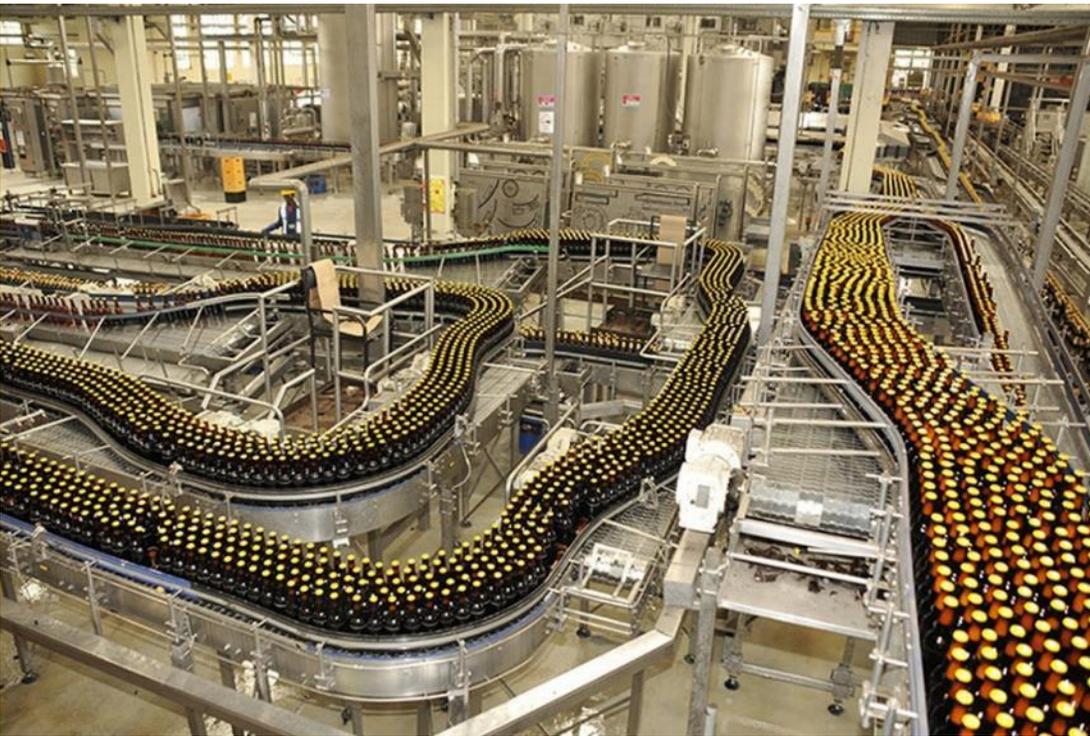
Looking Ahead



- Hybrid – PAPI and CAPI
 - Decision on CAPI solutions/platform to use
- Project Management
- Field Operations
- Power and Connectivity
- IT Security
- ICT Infrastructure
 - Back office data center, Connectivity, mobile devices, etc
- Staff skills Development
- Funding



Uganda Bureau of Statistics *“Enhancing Data Quality and Use”*



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