Ghana experience in the integration of administrative data in the production of official statistics"

GHANA STATISTICAL SERVICE

23-25 APRIL , 2018

UNECA, ETHIOPIA

Presentation Outline

❑ OVERVIEW OF ACTIVITIES ON ADMINISTRATIVE AND SDGs

❑CHALLENGES

❑ACTIONS AND WAY FORWARD
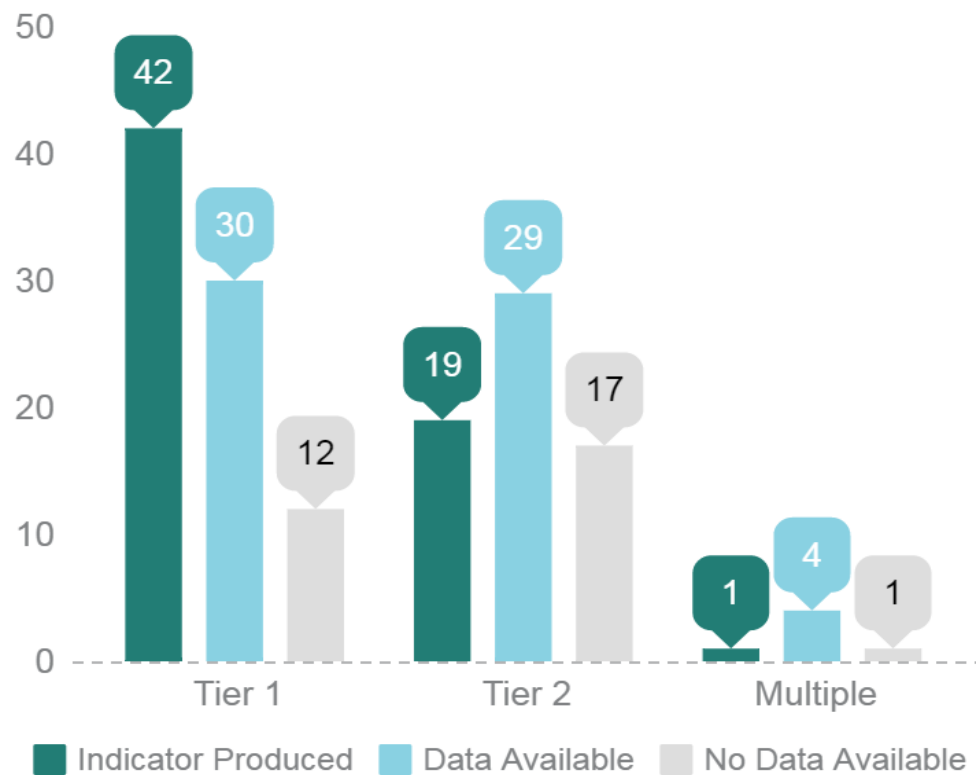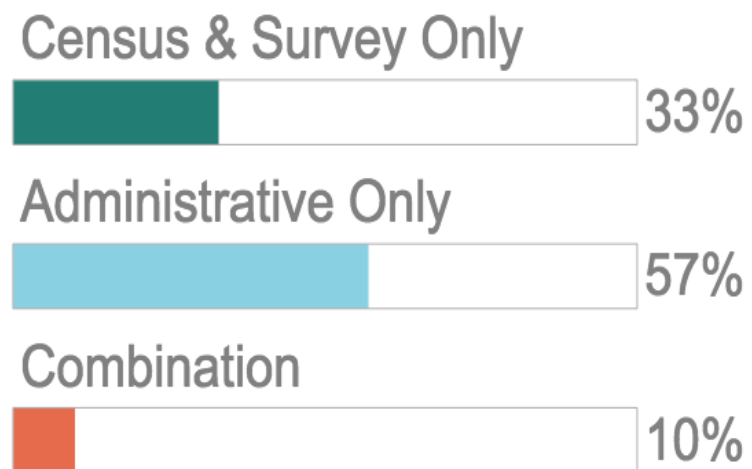
SOURCES OF DATA

❑CENSUS

❑SURVEY

❑ADMINISTRATIVE DATA

Current Data Situation in Ghana: Tier 1, 2

Of those indicators that are produced/ data is available for, the data is from:

Census & Survey Only — 33%

Administrative Only — 57%

Combination — 10%

Data production
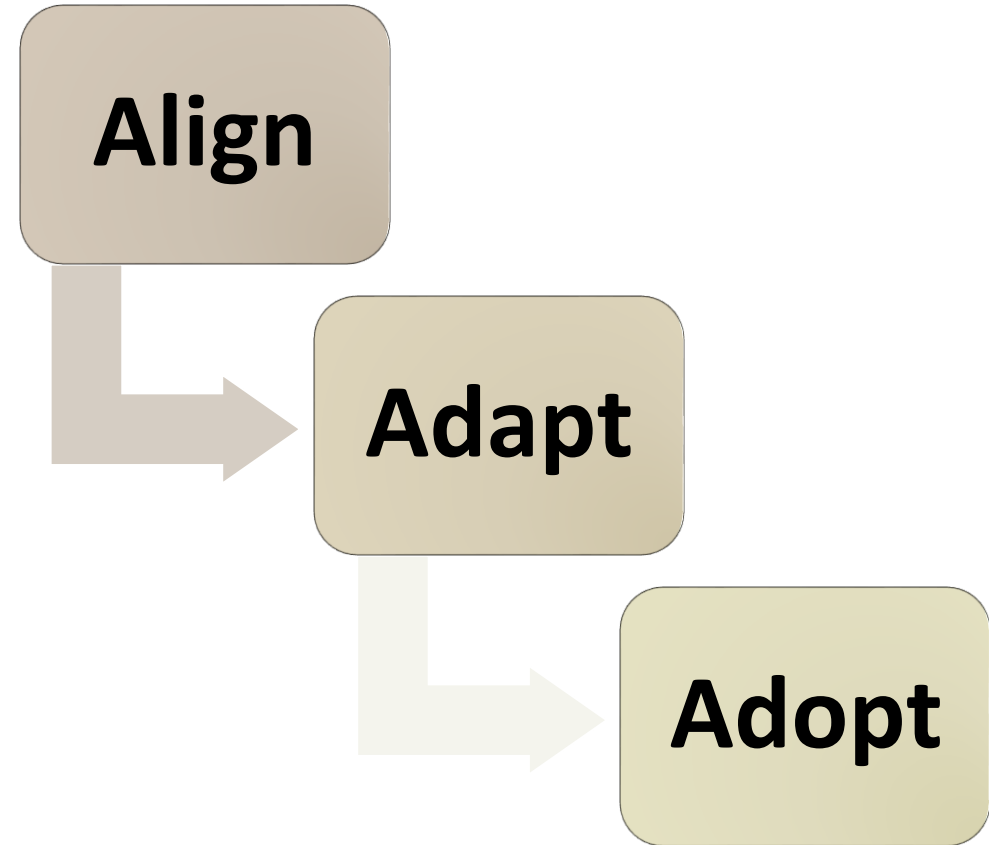
Most recent surveys to provide data for monitoring SDGs

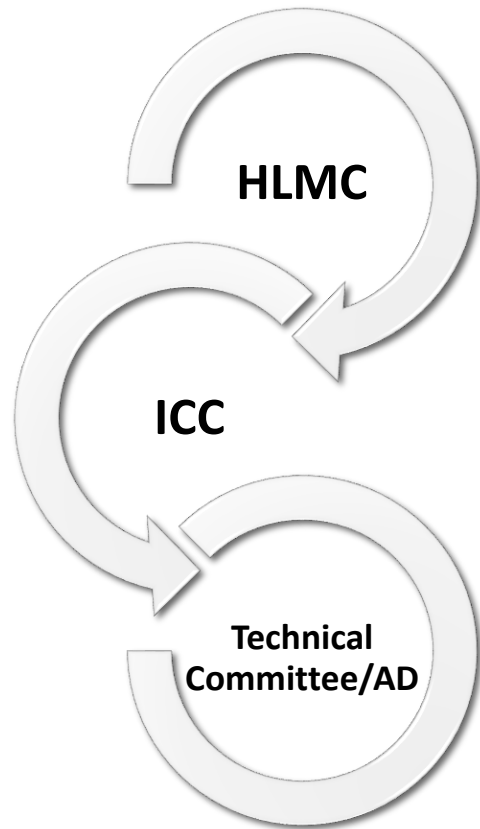➢Ghana maternal mortality survey (2017)

➢Ghana Living Standard Survey (2016-2017)

➢Ghana malaria Indicator survey (2016)

➢Multiple indicator cluster survey (2017)

➢Administrative data (MDAs)

➢Census of Agriculture (2018)

Linking the data needs

Agenda 2030

Agenda 2063

National Development Framework

National SDG Implementation Strategy

HLMC

ICC

Technical Committee/AD

Align

Adapt

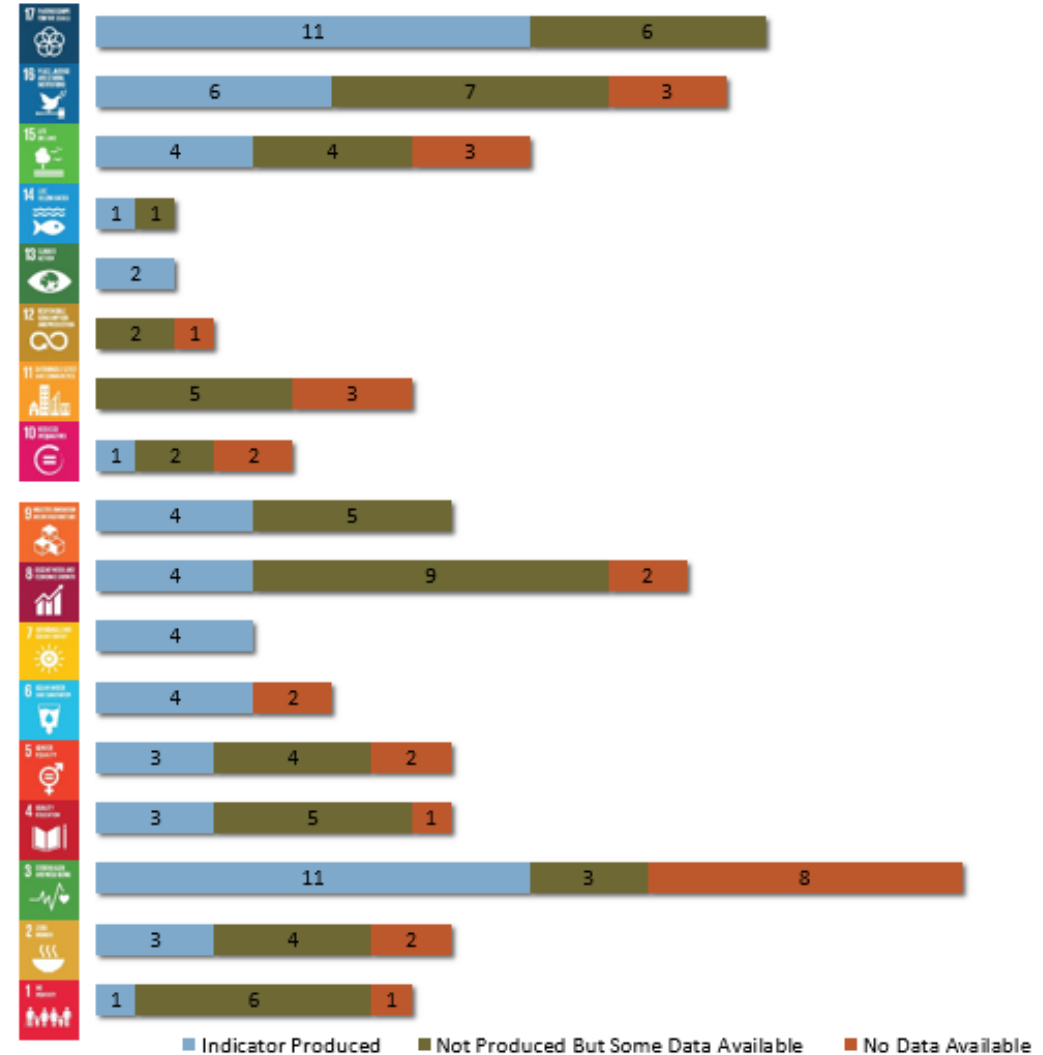**Adopt**

National Monitoring Capacity Assessment

Results of assessment
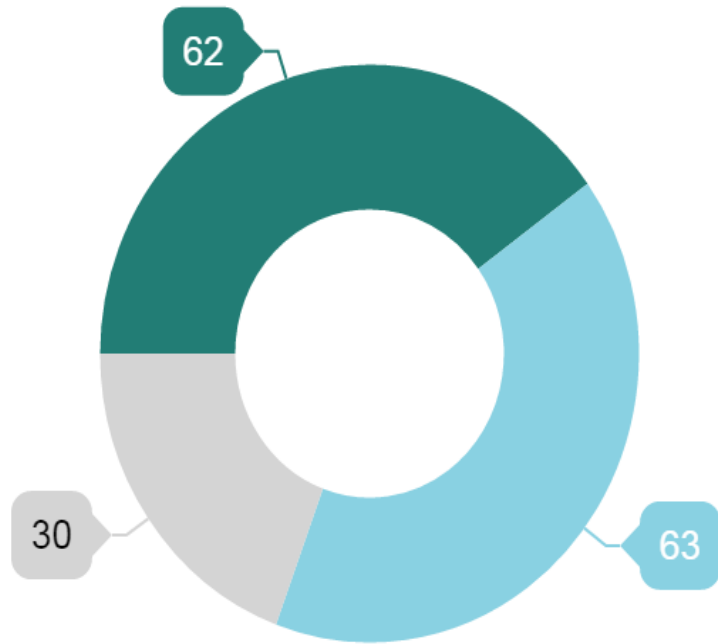
Indicator Produced (40%) Data Available (40.65%)
No Data Available (19.35%)

National Data for Sustainable Development Roadmap

- Advisory Committee established
  - Co-chaired by GSS and NDPC
  - High-level members from key stakeholder institutions including government, civil society, private sector, media, academia, DPs
  - Oversight of all areas of the data ecosystem and implementation of the data roadmap - reduce duplication, increase impact and interlinkages
  - Coordinate the work of the data work-streams focusing on various priority areas for action arising from the Data Roadmap

Key challenges

- Data Disaggregation
  - Gender
  - Location
  - Socio-economic grouping
  - Disability status
  - Etc.

- Timeliness of Data

- Data on new thematic areas

- Multi-stakeholder data production

- Limited use of data for decision-making

- Alignment of demand and supply of data

ACTIONS AND WAY FORWARD

Activities to ensure increased data production

NSDS II has six strategic goals

- Improve the policy, regulatory and institutional framework
- Improve human resource development and management
- Modernise physical infrastructure
- Update statistical infrastructure
- Enhance data production, quality, dissemination and use
- Develop sustainable funding arrangements and establish collaborations with national and international institutions

New MDAs included based on SDG data required

	Core	Associated
1	Ghana Statistical Service	Ministry of Trade and Industry
2	Ministry of Lands and Natural Resources	Ministry of Communications
3	Ministry of Employment and Labour Relations	Office of the Head of Civil Service
4	Ministry of Health/ Ghana Health Service	Judicial Service
5	Ministry of Education	Energy Commission
6	Births and Deaths Registry	
7	Registrar General	
8	National Communication Authority	
9	Ministry of Water Resources, Works and Housing	
10	Ghana Police Service	
11	National Road Safety Commission	
12	Environmental Protection Agency	
13	Ghana Immigration Service	
14	Ministry of Tourism, Culture, and Creative Arts	
15	Ministry of Food and Agriculture	
16	Ministry of Gender, Children and Social Protection	

Activities to ensure increased data production

- Improving policy, institutional and regulatory framework – New Decentralization Bill

  - The bill has been passed for the establishment of Statistics Department in each of the 216 MMDAs

- Statistical Service Law being revised and strengthened – first reading in Parliament in October 2016

  - New Law expected to strengthen the role of GSS in coordinating the NSS

- Moving from PAPI to CAPI to reduce the time lag between completion of data collection and publication of results

- Establish data quality assurance framework

  - To Quality assure statistical products by GSS and MDAs

  - To Quality assure statistical products by other producers

- Collaborating with the Local Government Service Secretariat to establish a Statistics Department in each of the MMDAs

Key Priority Areas for Action

Filling data gaps

Strengthening Censuses and Surveys

Building effective administrative data system

Exploring new sources and types of data

Encouraging data use

Make data more open for reuse
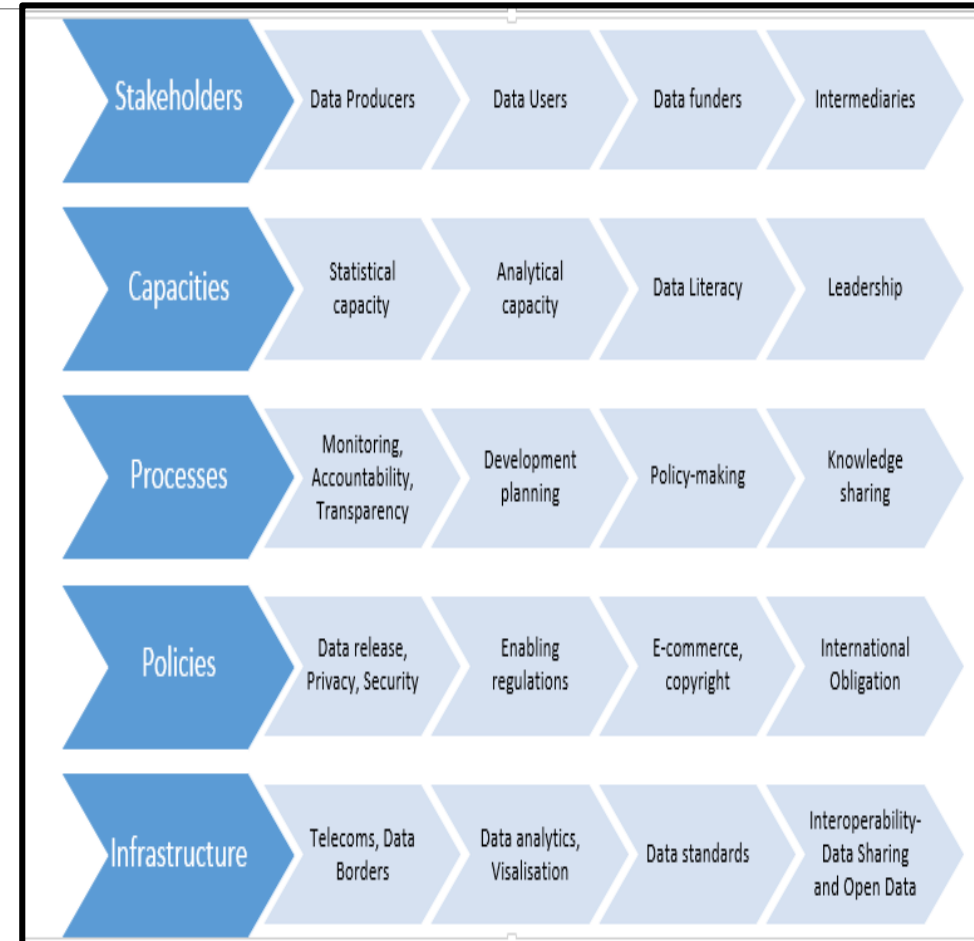
Better communication and visibility of data

Ensure data connects to decision-making and meets user needs

Ensure that data is interoperable and harmonized

Strengthen entire data ecosystem

Stakeholders	Data Producers	Data Users	Data funders	Intermediaries
Capacities	Statistical capacity	Analytical capacity	Data Literacy	Leadership
Processes	Monitoring, Accountability, Transparency	Development planning	Policy-making	Knowledge sharing
Policies	Data release, Privacy, Security	Enabling regulations	E-commerce, copyright	International Obligation
Infrastructure	Telecoms, Data Borders	Data analytics, Visualisation	Data standards	Interoperability-Data Sharing and Open Data

Projects to fill data gaps – data innovation

Call Detail Records (CDRs) to produce indicators for monitoring SDGs

- Partners: GSS; Flowminder: Vodafone Ghana;

- Work-streams: Big/Spatial Data

- Funders: Vodafone Foundation; Hewlett Foundation (co-funding)

- Focus: Health, migration, access to basic services

Number of Workstreams Formed

- Census and Survey

- Communication and Dissemination (Including Open data)

- Big and Spatial data (Telecom, social media, Financial data)

- Health

- Education

- Gender data/ Statistic

- Finance and Economics

- Policy and enabling Environment

- Governance, Peace and Security

- Employment

- CRVS and National ID

- Food and Agriculture and Environment

Strengthening the data ecosystem - NSO Partnerships

Last part of Outcome Statement 2

.........strong partnerships must therefore be built to ensure that data, technology, research and innovation are appropriately harnessed.

- **Statistics Denmark**: Partnership on Administrative Data
  - MoU signed
  - Scoping mission to engage all stakeholders on prioirities

- **Office for National Statistics UK**: Partnership on Data Science Capacity and other areas
  - Scoping mission held October 2017 – draft report submitted
  - Second scoping mission completed Feb. 5-9, 2018

- **US Census Bureau**: Partnership for 2020 PHC

- **Statistics South Africa**

  - Development of a Data Quality Assurance Framework to provide common standards for data from multiple sources, including MDAs, civil society and private sector for monitoring development agendas

  - Hewlett Foundation expressed interest in supporting this project

- **Spatial/Big Data Work Stream to hold a stakeholder meeting with national institutions that will greatly benefit from ARDC: LUSPA, FC, GSS, CERSGIS, EPA, MoLNR**
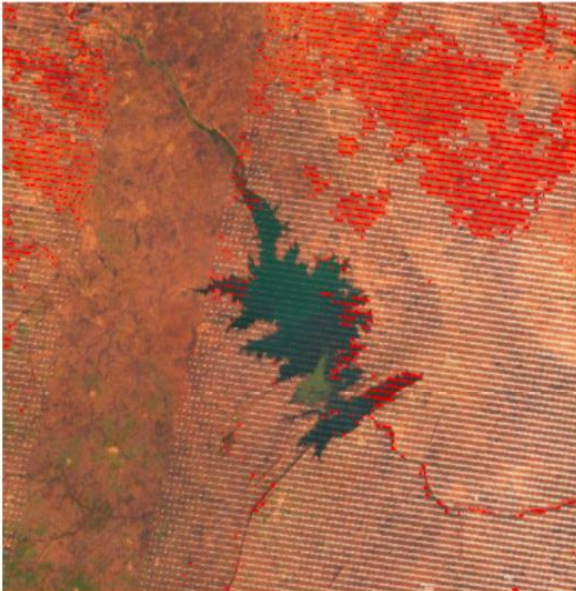
- Shared initial PYTHON codes with CERSGIS
  - Explored and raised issues
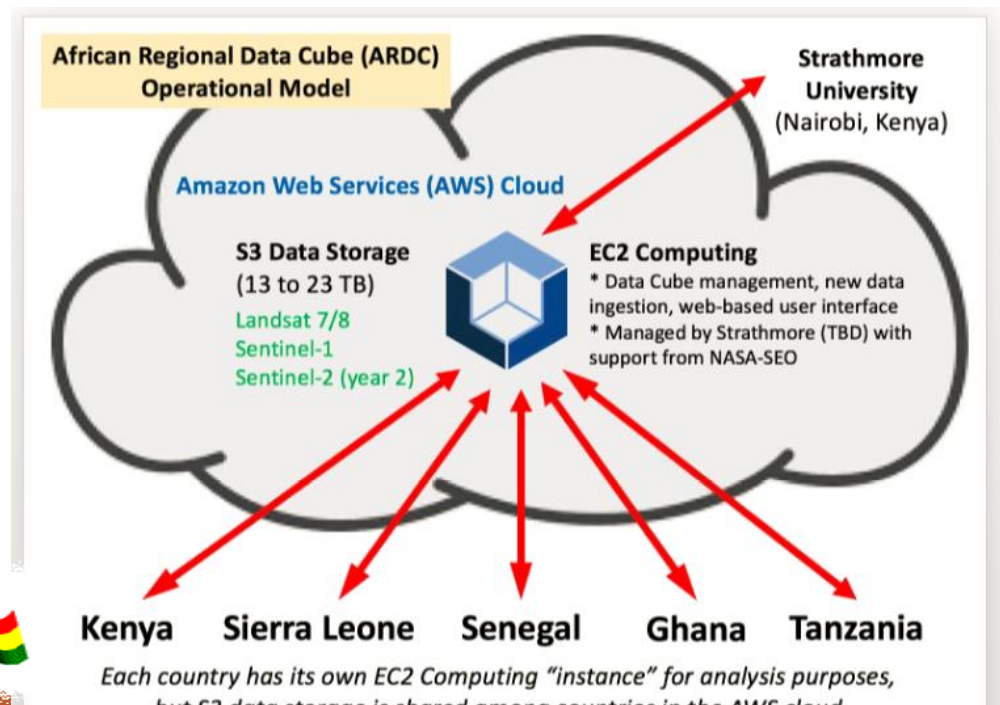 - First conference call with NASA Systems Engineering Office

Cloud-filtered Mosaic

**Bui National Park
Black Volta River
Western Ghana**

The final product (left) is a cloud-filtered "recent pixel" mosaic for Jan-Mar 2016 (3 months). The result is compiled from four (4) Landsat-7 scenes to produce a 97% cloud-free image. The baseline scenes (left) are 15% to 80% cloudy. The cloud or no-data pixels are highlighted in **RED**. This analysis is produced very rapidly (~1 minute).

African Regional Data Cube (ARDC) Operational Model

Amazon Web Services (AWS) Cloud

Strathmore University (Nairobi, Kenya)

S3 Data Storage (13 to 23 TB)
Landsat 7/8
Sentinel-1
Sentinel-2 (year 2)

EC2 Computing
* Data Cube management, new data ingestion, web-based user interface
* Managed by Strathmore (TBD) with support from NASA-SEO

Kenya   Sierra Leone   Senegal   Ghana   Tanzania

Each country has its own EC2 Computing "instance" for analysis purposes, but S3 data storage is shared among countries in the AWS cloud.

Bui National Park Land Change

Bui National Park started construction of a Dam in Dec 2009. This explains the short existence of water from 2000 through 2016. The images to the left support these results.

Time series observations of water can be used to track the progress of water management projects, such as this project in Ghana.

Dec 2010
Dam under construction

Dec 2016
Dam complete ... new lake

Talking: Brian

Strengthening the data ecosystem – MDAs data templates review

- A briefing session to obtain management buy-in for MDAs data collection templates review.

  - Establish MDAs SDG teams with team leads and development of guiding notes for focal persons from MDAs to provide appropriate feedback
  - MDAs management should collaborate and partner more with GSS in the follow up drive to strengthen data production and use
  - MDA management to provide strong support for the review of data collection templates towards SDG data production
  - Restructuring and aligning the RSIM for data production to inform policy decision for service delivery in MDAs
  - Promoting innovative ways of accessing and using data for evidenced based decision making and policy
  - To engage the OHCS to restructure and build capacity of RSIM to support data collection and research for MDAs
  - Review the delivery contracts of chief directors with MDAs for the attainment of the SDGs
  - SDGs should be made a deliverable item for chief directors' annual performance contract with OHCS

- Meeting with MDAs directors of RSIM and PPME to take forward the agenda

Building the data ecosystem – Civil Society and other country partners

- Multi-stakeholder conference on SDGs – organised by the CSO Platform and Deloitte in partnership with GSS, Nov 30. 2017
  - GSS Regional offices involved at regional events

High Level Roundtable on "**Mobilizing Support and Accelerating Implementation of the Sustainable Development Goals (SDGs) in Africa**" by H.E. President Nana Akufo Addo, December 11-12. *Outcome Statement 6:*
  - "The lack of data is a huge barrier to effective planning, efficient implementation, progress valuation and performance tracking……. considerable constraints on the types, quality and time frames of available data and information have implications for measuring progress…….. Governments are urged to invest in building the capacity of statutory statistical institutions to ensure timely collection, collation and analysis of relevant data for measuring progress of the indicators required to track the implementation of the SDGs"

Briefing session with DPs on progress with Roadmap and the way forward, Dec 13, 2017
  - IMF rep indicated willingness to support any programme to strengthen admin data for national accounts

Ghana on UN IAEG-SDGs

- Ghana was officially invited to join the reconstituted IAEG-SDGs in August 2017

- Ghana participated in 6th IAEG meeting in Bahrain: November 11-14, 2017
  - Made several inputs for indicator reclassification and refinement

- Ghana's rep selected to co-chair work stream to develop guidelines on SDG data disaggregation for adoption by UNSC in March 2019

- Request for President of Ghana to speak on opening of 2nd UNWDF in Dubai, October 2018
  - Invitation submitted to President's Special Advisor on SDGs - half page justification note requested
  - Roadmap Secretariat submitted proposal to organize a session at 2nd UNWDF

H.E. The President's take on the Roadmap Priorities

Thank you for the opportunity