

New Sources of Data for SDGs Monitoring in Ghana

International Workshop on SDGs
Indicator

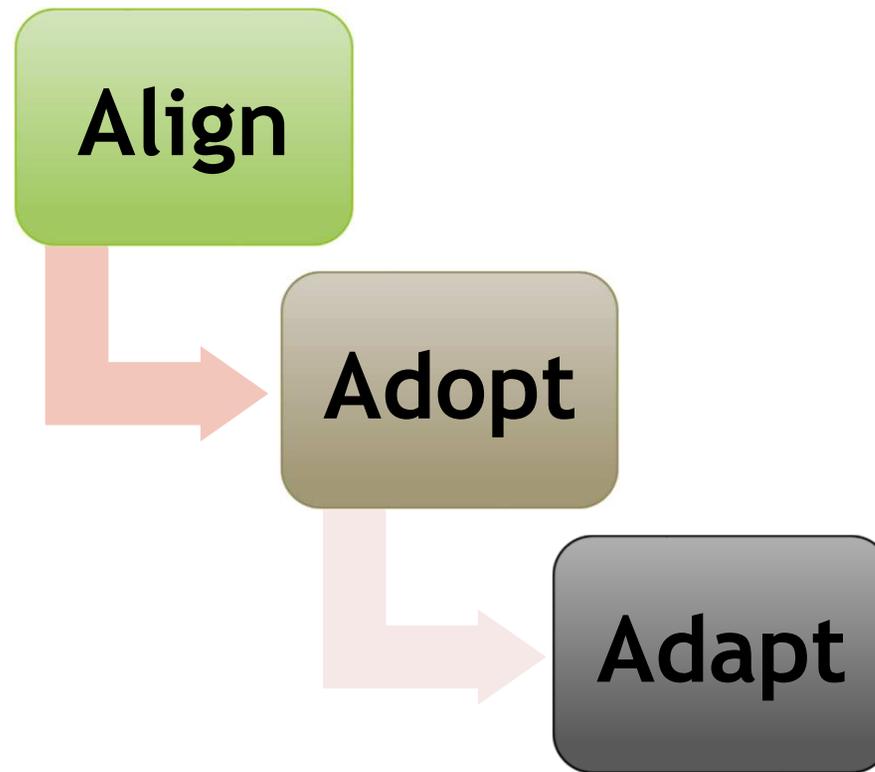
Presentation by:
Bobrnuo Vitus



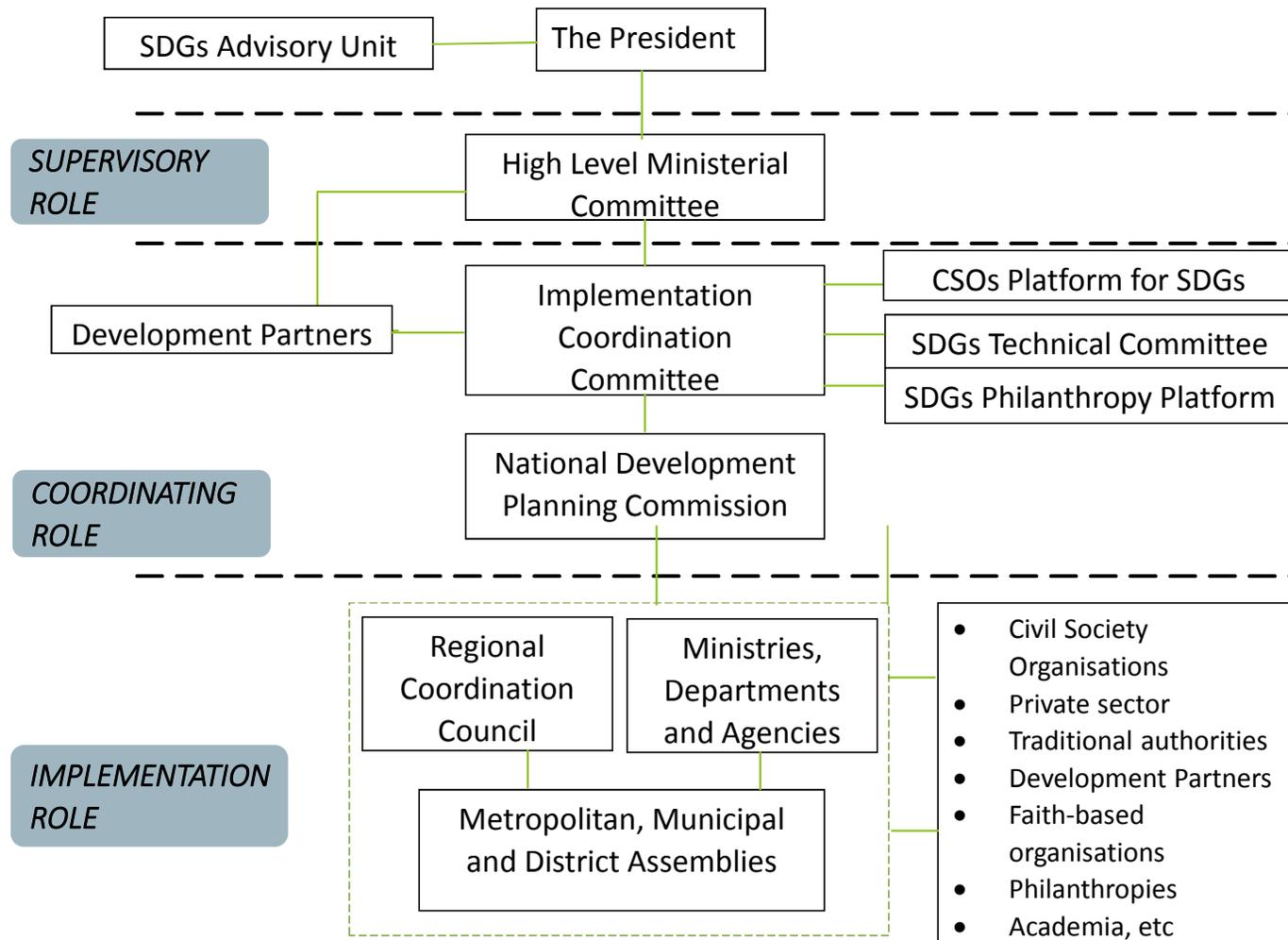
Outline of Presentation

- ❖ SDG Implementation strategy
- ❖ Implementation arrangement
- ❖ National capacity assessment
- ❖ Exploring the use of Big Data
- ❖ Strengthening administrative data systems
- ❖ Enabling environment -
 - ❖ Legal framework
 - ❖ Data quality assurance framework
 - ❖ High level political buy in

National SDG Implementation Strategy



SDGs Implementation Arrangement

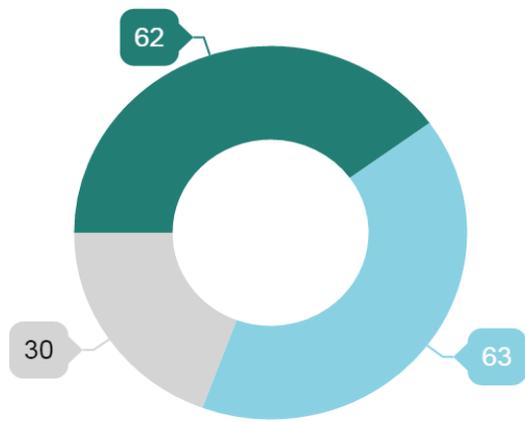


National Monitoring Capacity Assessment



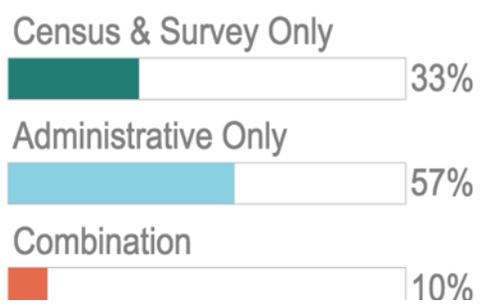
Slide: 10 of 19

National capacity for monitoring the SDGs



■ Indicator Produced (40%)
 ■ Data Available (40.65%)
 ■ No Data Available (19.35%)

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



Indicators for 2017 SDG baseline report

SDGs	Number of indicators			Proxy	Total
	Original SDGs indicators	Amended (localised) indicators	Additional indicators		
1	3	0	0	0	3
2	2	2	0	0	4
3	9	0	1	0	10
4	4	0	1	0	5
5	5	0	0	0	5
6	2	0	0	1	3
7	2	0	0	0	2
8	5	0	0	0	5
9	5	0	0	0	5
10	1	1	0	0	2
11	2	1	0	1	4
12	1	0	0	0	1
13	0	1	0	0	1
14	1	0	0	0	1
15	1	1	0	0	2
16	8	1	0	0	9
17	6	1	0	0	7
Total	56	8	3	2	69

Key Priority Areas for Action from Data Roadmap

Filling data gaps



Strengthening
Censuses and



Building
administrative
system



Exploring new
and types of

data

Encouraging data use



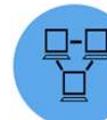
Make data more open
for reuse



Better communication
and visibility of



Ensure data connects
to decision-making



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

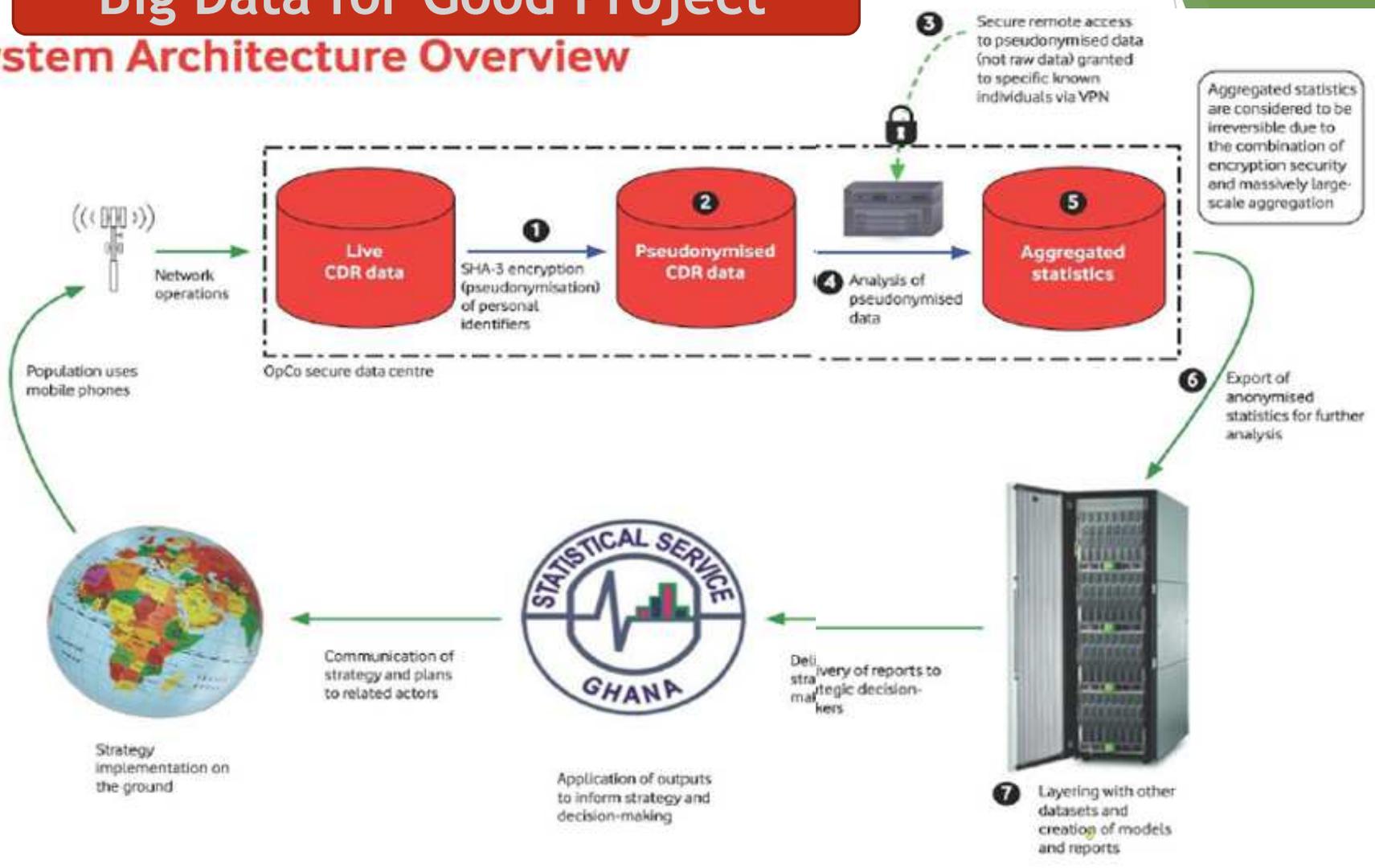
Data analytics,
Visualisation

Data standards

Interoperability-
Data Sharing
and Open Data

Big Data for Good Project

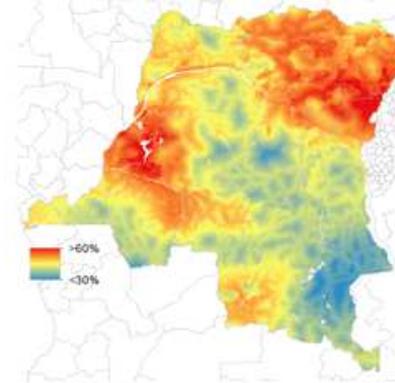
System Architecture Overview



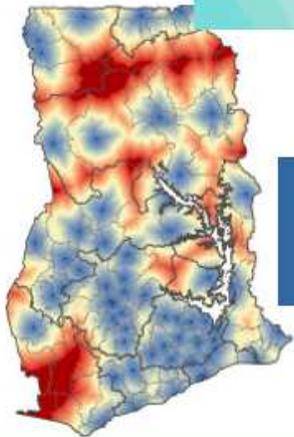
Future outputs: High-resolution maps of population characteristics: examples from other countries



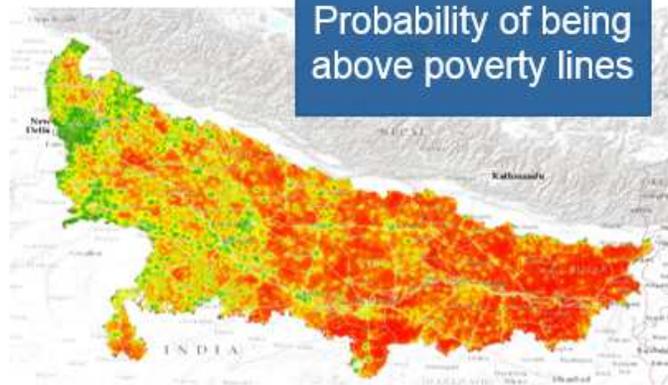
Proportion females who are literate



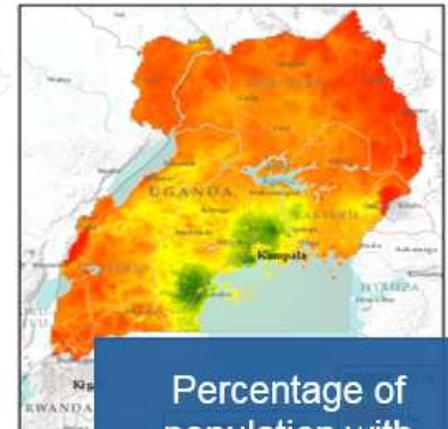
Proportion of pregnant women making at least 4 antenatal care visits



Possible output for Ghana



Probability of being above poverty lines

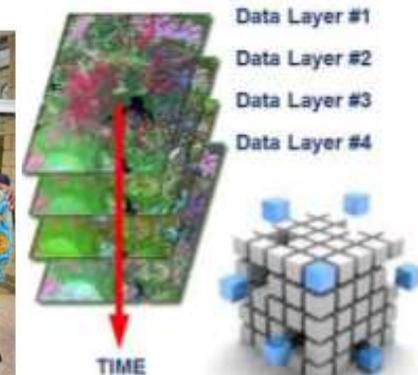


Percentage of population with access to sanitation

Africa Regional Data Cube

A data cube provides analytically ready data across decades allowing for easily accessible geospatial analysis on key environmental issues. The initial focus for the data cube will be on algorithms to address agriculture and food security

- **Data Cube** = Time-series stack of spatially aligned pixels ready for analysis
- **Analysis Ready Data (ARD)** ... Data which has been pre-processed and ready for analyses, thereby reducing the burden on users
- **Open source** software approach allows free access, promotes expanded capabilities, and increases data usage.
- **Unique features:** exploits time series, increases data interoperability, and supports many new applications.



Opportunities from Data Cube

1. **Faster Spatial Analysis leading to timely decision making**
2. **Capacity building**
3. **National spatial data infrastructure development for the uptake of geospatial information**
4. **Development of specific applications:**
 - Food Security Early Warning/Crop Production statistics
 - Forest and Land Degradation Monitoring (including illegal mining activities)
 - Land use and Land Cover change analysis (including urban sprawl)
 - Water Resource Monitoring (including water quality and small water bodies)
 - Disaster Management (Flood and Desertification Risk Mapping)

- ▶ The Ghana team is currently working to demonstrate through use cases for the ARDC
 - ▶ Focus on land cover
 - ▶ Water quality
- ▶ Capacity development strategy for the use of ARDC is being prepared

Strengthening administrative data system

Administrative Data

- ❖ This activity is a partnership that is developed between GSS and Statistics Denmark through discussion which were initiated prior to the National Data Roadmap Forum.
- ❖ Administrative data is the source of fifty percent of SDG data in Ghana.
- ❖ This activity will focus on two goals (4 and 5) of the National Strategy for the Development of Statistics II.
- ❖ Goal 4 is to update statistical infrastructure
- ❖ Goal 5 is to enhance data production, quality, dissemination and use.
- ❖ Development of population register and other administrative registers
- ❖ Data linkages between the various data producers in the NSS,
- ❖ Development of matching metadata systems for all administrative data produced by MDAs.

Enabling environment

- ▶ Legal framework - the Statistical Service Law, PNDC Law 135, enacted in 1985 has limitations, for example the use of Big Data for official statistics
- ▶ Law being revised with additional provisions
 - ▶ Exploring use of Big Data for official statistics
 - ▶ Central role of NSO as coordinator of NSS
 - ▶ Quality assessment and certification, etc.
- ▶ Local Government Act, 2016 (Act 936) with provision for the establishment of District Statistics Department in each Metropolitan, Municipal District Assemblies
 - ▶ Coordination of data production to feed into local level decision making
- ▶ Development of a Data Quality Assurance Framework to provide common standards for data from multiple sources for monitoring development agendas,
 - ▶ Data from civil society and private sector
 - ▶ New types of data

Enabling environment - high level political buy in



Building and sustaining political commitment to the data agenda is vital

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



Thank you