# Country Led Innovations to Address Low Data Challenges-Ghana's Experience

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**Ghana Statistical Service** 

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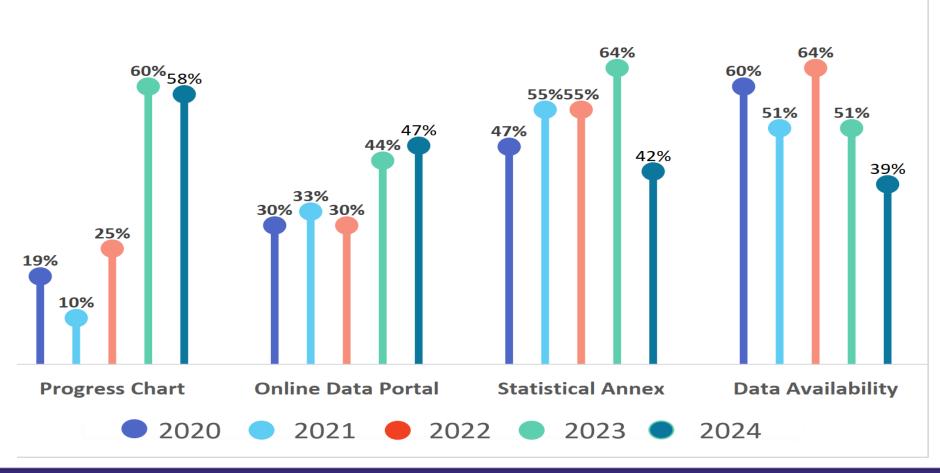


### **OUTLINE**

- 1. Progress in SDGs monitoring
- 2. Using data science tools for local level SDG monitoring for **SDG 1**
- 3. Machine learning for scraping 20 years of pdf data for **SDG 4**
- 4. Citizen data for **SDG 5**, **11**, **16**
- 5. Mobile Phone data and disasters **SDG 11**
- 6. Leveraging CSOs data to monitor SDG 14
- 7. Earth observation data for monitoring **SDG 15**
- 8. Going beyond reporting

## The Global Performance

Proportion of Countries Incorporating Data Elements in VNRs (2020-2024)



## Progress in SDGs Monitoring in Ghana



2018

Baseline indicators = 70

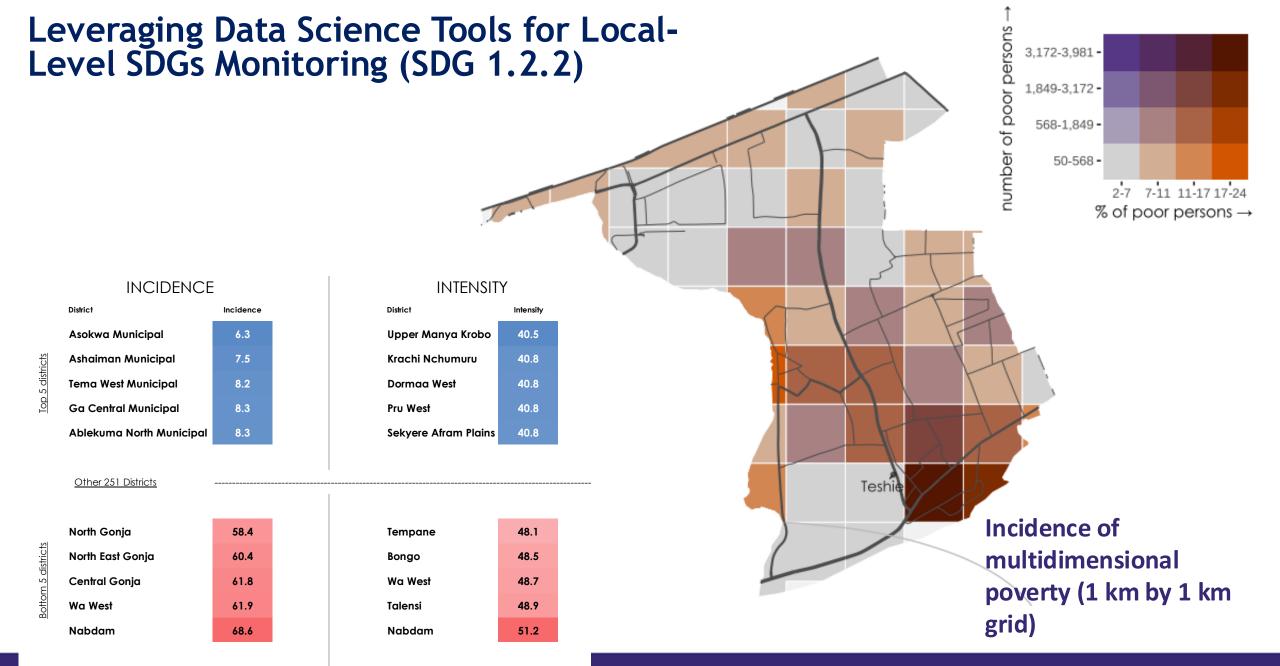


2019 VNR indicators = 73



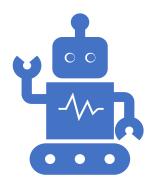
2022 VNR indicators = 102

2025 VNR indicators = 140





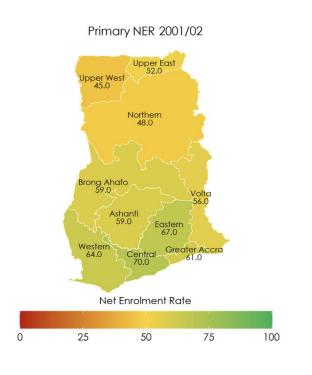
### Access to and Quality of Education using Administrative Data (SDG 4)

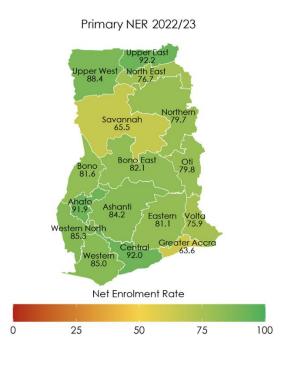


Using data science toolbox for automated scraping, verification, and quality check



Source data in PDF reports for each year from 2001 to 2021

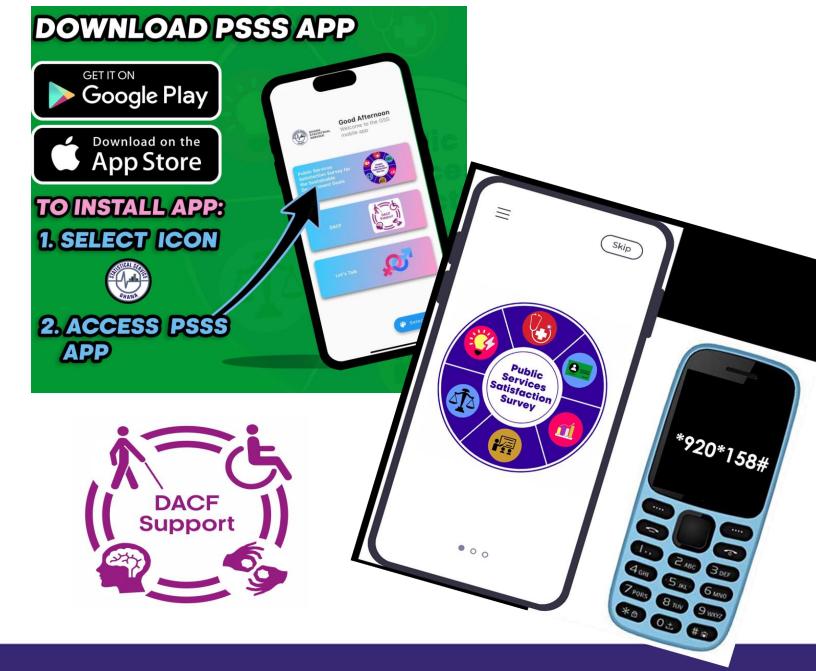




# User-centric citizens' data Apps for local-level data

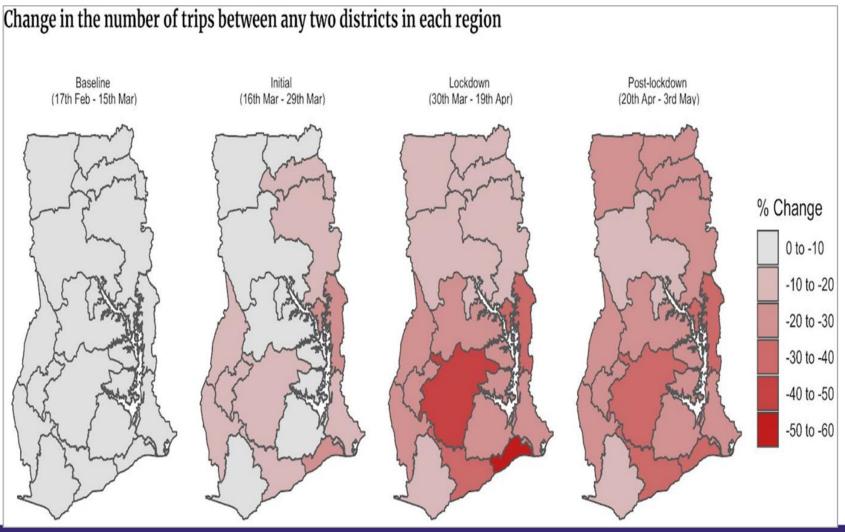
#### **Indicators**

- 5.2.1
- o **5.2.2**
- o **11.7.2**
- o **16.1.3**
- o **16.6.2**





## MOBILE PHONE DATA CAN PROVIDE VALUABLE INSIGHTS INTO POPULATION DYNAMICS, WHICH IS CRITICAL FOR POLICY FORMULATION AND PLANNING

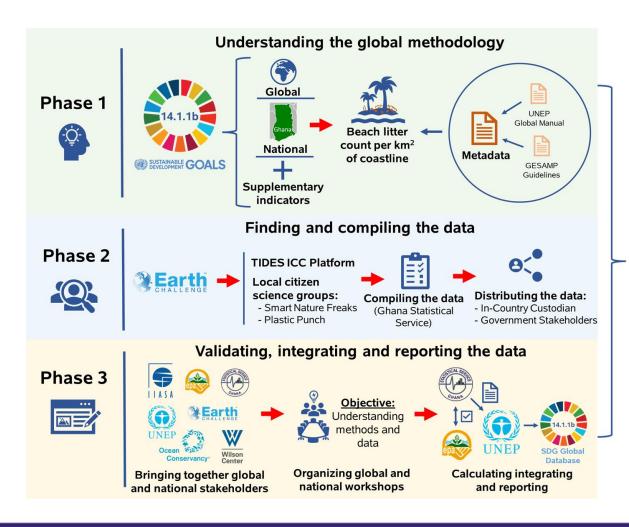


# REQUISITE DATA TO SUPPORT THE FOLLOWING INTERVENTIONS IS LACKING

- Disease Surveillance
- ✓ Disaster Response Resourcing
- ✓ Vaccination Campaign Planning
- Annual Poverty Mapping to give local and annual estimations
- Energy Grid Regulation
- ✓ Sanitation Planning
- Health prevalence indicators (with dynamic denominators)
- Real-time internal migration models
- Day/night -time population for health service
- Urban planning / vehicular traffic



## Monitoring Marine Litter in Ghana (SDG 14.1.1b)



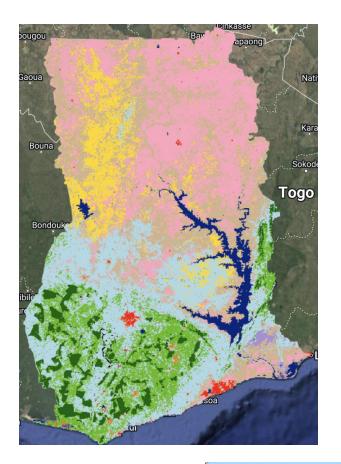
Align the ICC methodology with the global 14.1.1b indicator methodology

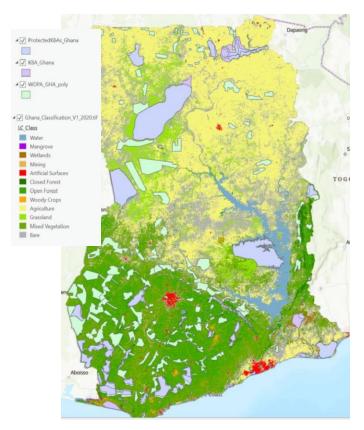
Facilitate
support to
the local
citizen science
groups for
future data
collection
activities

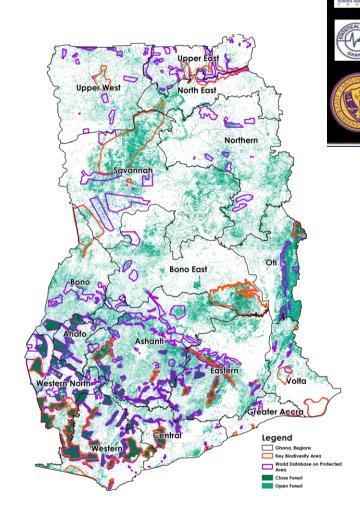
Ensure policy uptake and impact



## Using Earth Observation for SDG 15 Monitoring (SDGs 15.1.1; 15.1.2; 15.4.1)







#### Interactive results are here:

https://amandajpayton.users.eart hengine.app/view/agu-results



GHANA

Statistical Service

## Going beyond reporting

Baselines

Periodicity

Methodological alignment

• Alignment with changing national and sectoral policy documents

## Thank you for your attention

