

Development goal denominators

- All MDGs and SDGs are based on ensuring a certain percentage of the population has access to specific services or resources, or achieves a certain level of social, economic, or physical health
- SDG focus on achieving x,y,z everywhere = geography is important
- Requires a consistent, comparable and regularly updated understanding of not only how many people live in a country, but where the people are, and who they are
- Creates challenges.....smaller sample sizes....data sparseness



The challenge

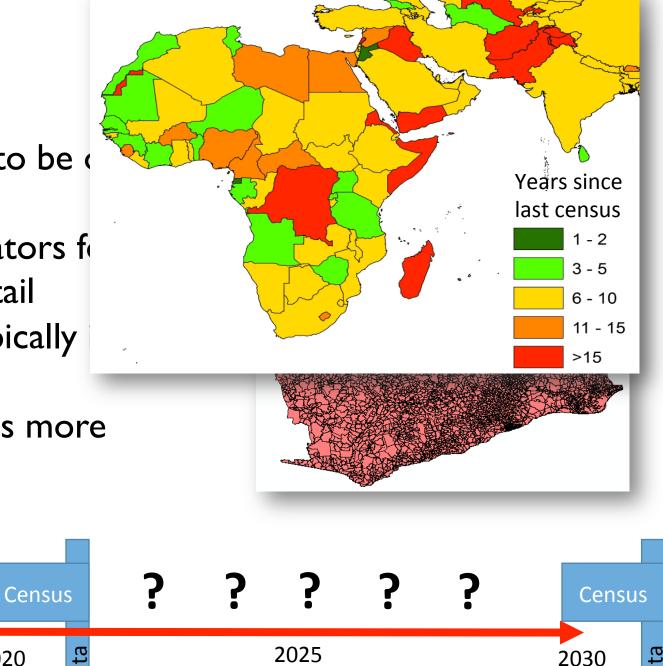
Census

2010

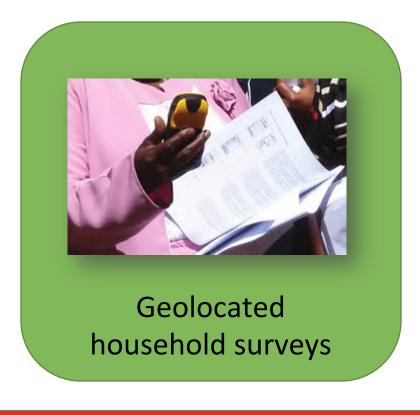
- National census data will continue to be most important datasource
- Provides denominators and numerators for SDGs, and requisite subnational detail
- But, the 2015-2030 SDG period typically just one census datapoint
- And in some settings the situation is more challenging

2020

2015

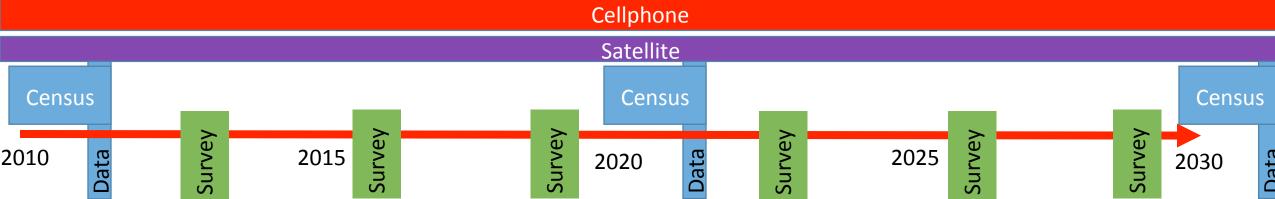


What do we have to help us?

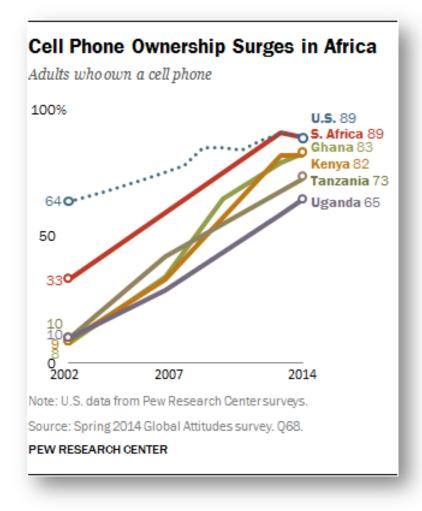








Cellphone call detail records





User makes a call from location X

Call near



User travels to Y and makes a call

Mobility: Changing densities, flows, seasonal/ permanent migration

Social networks: Number of contacts, calling patterns

Consumption: Credit purchase frequencies, topup amounts

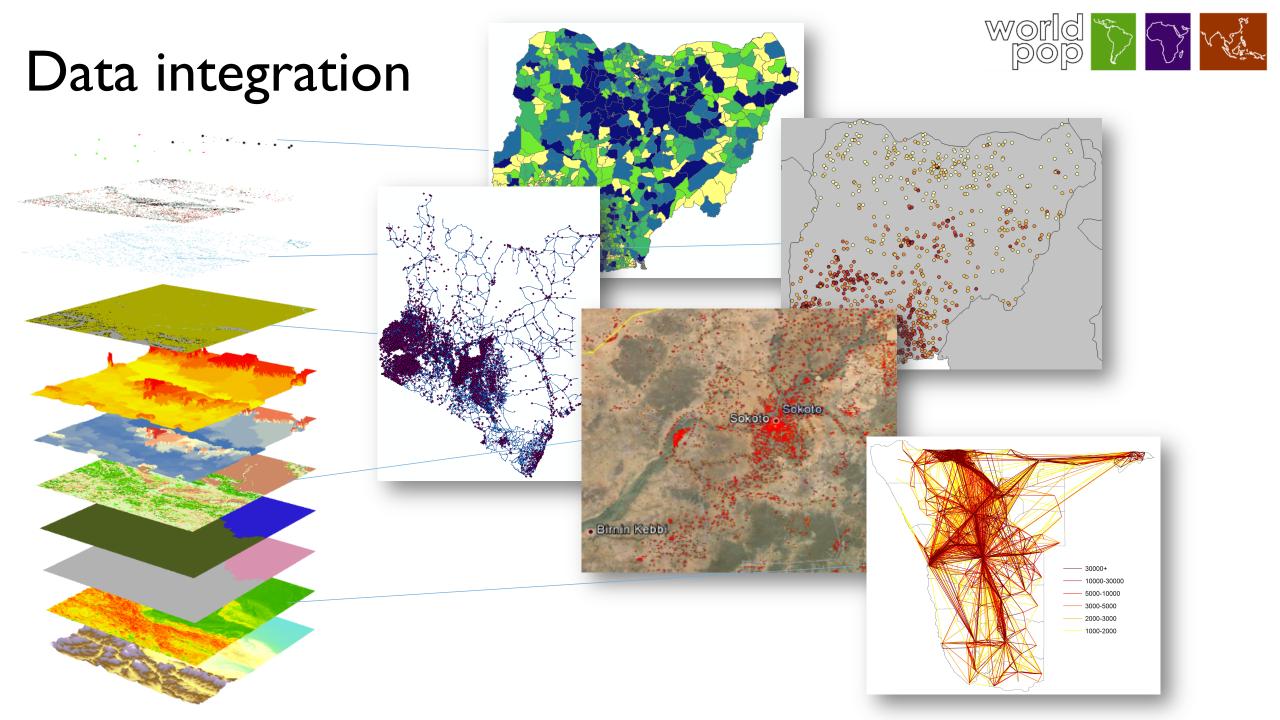
Collaboration opportunities

Vodafone Foundation is keen to find collaborators in Ghana to make use of mobile network data for public good

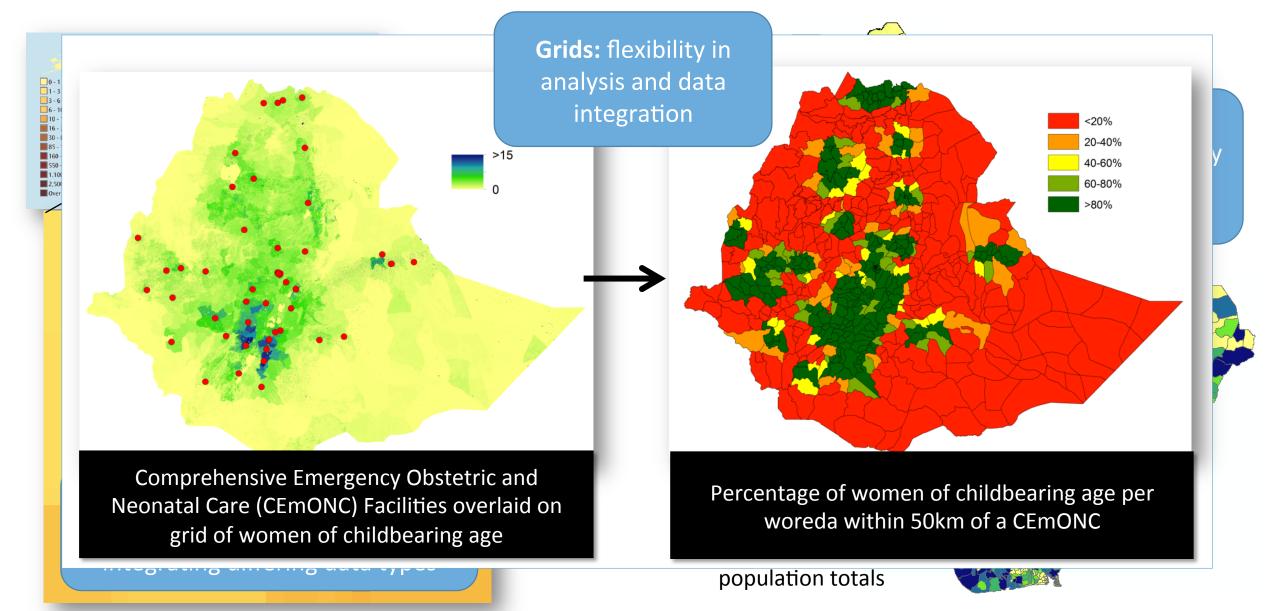


Vodafone Foundation

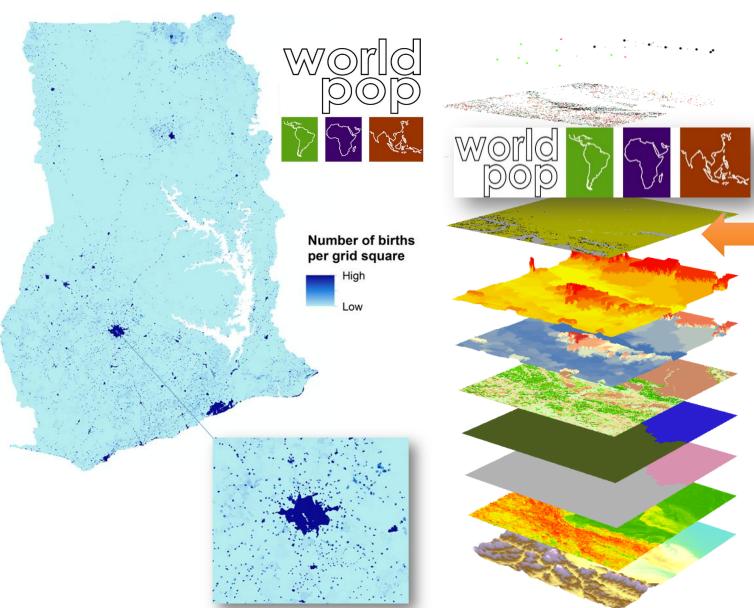
FLOWMINDER.ORG

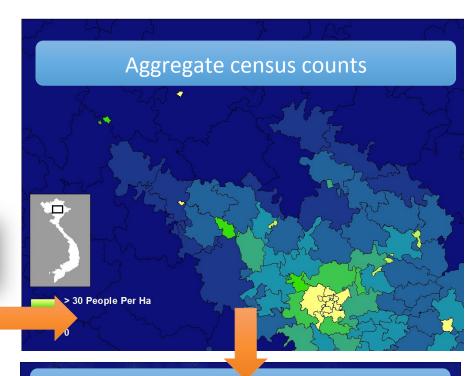


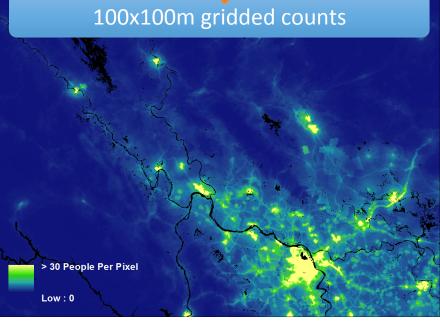
Benefits of 'gridded' demographic data



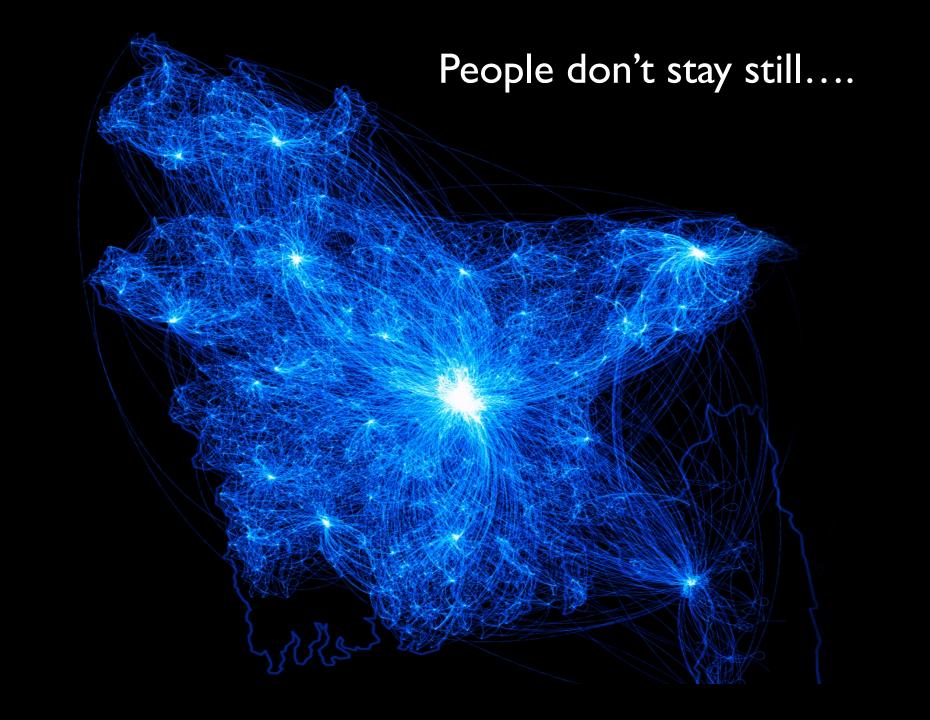
Census data disaggregation

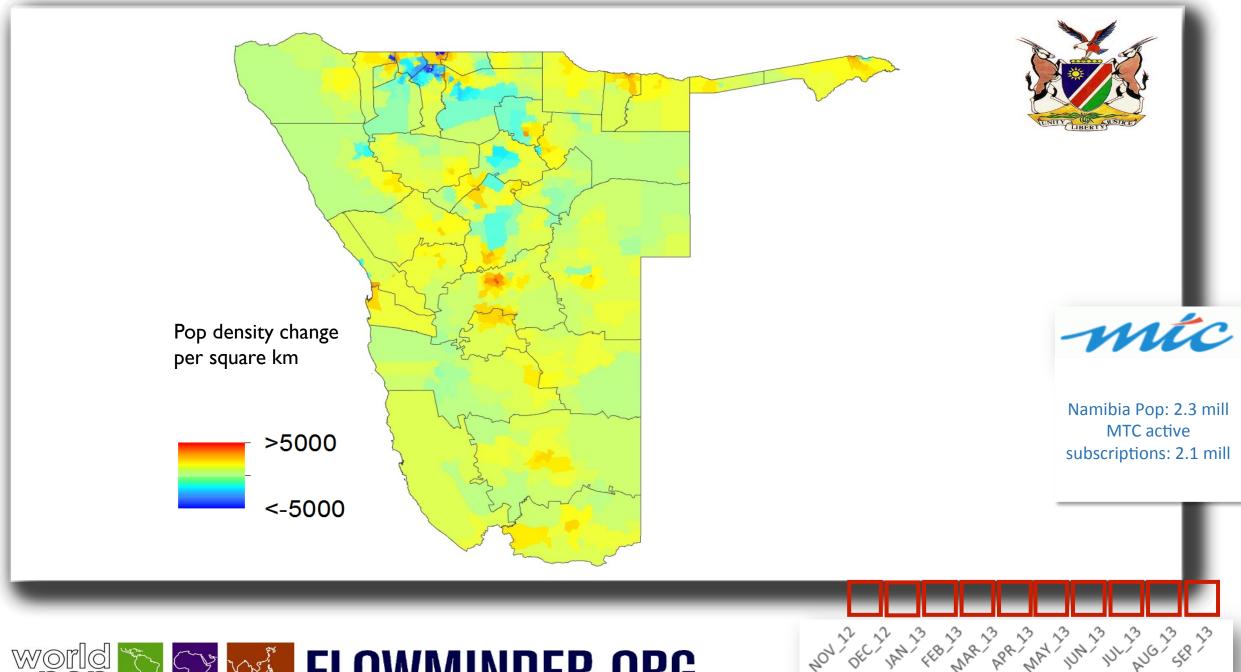






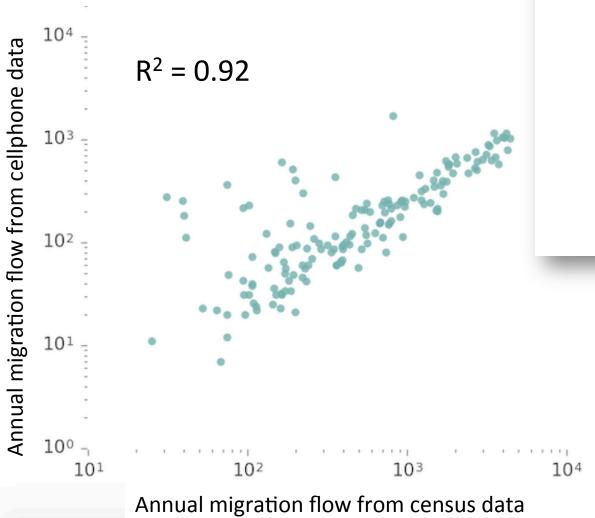
Population estimation in the absence of national census KANO 251 - 800 Population estimates per 90x90m grid square S foundation

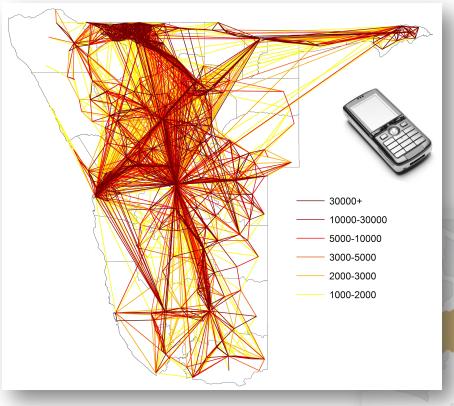






Measuring migration



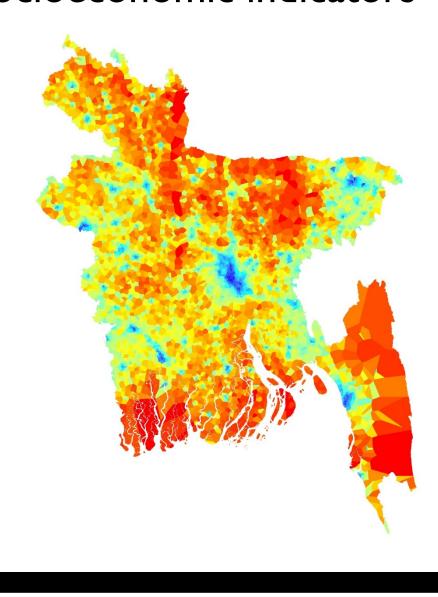


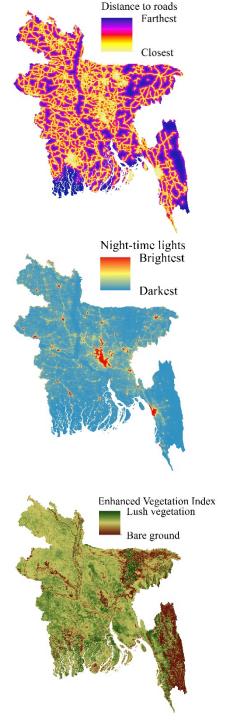


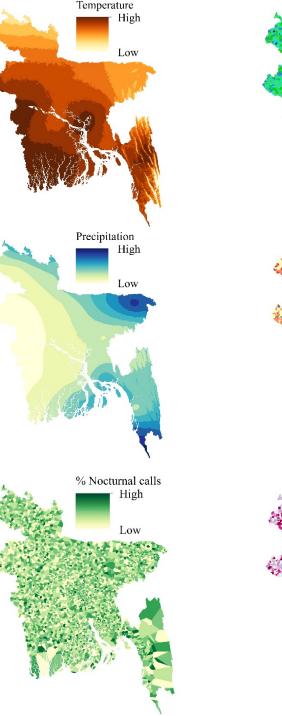


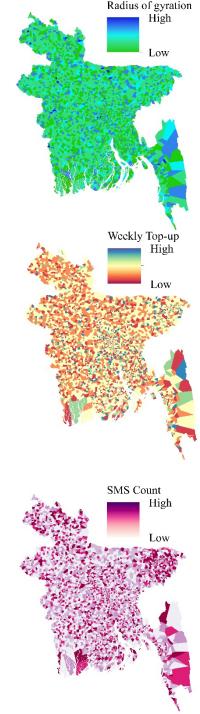


Improving mapping of socioeconomic indicators









Mapping SDG indicators

3 GOOD HEALTH AND WELL-BEING

Open Health Initiative

MEASURE

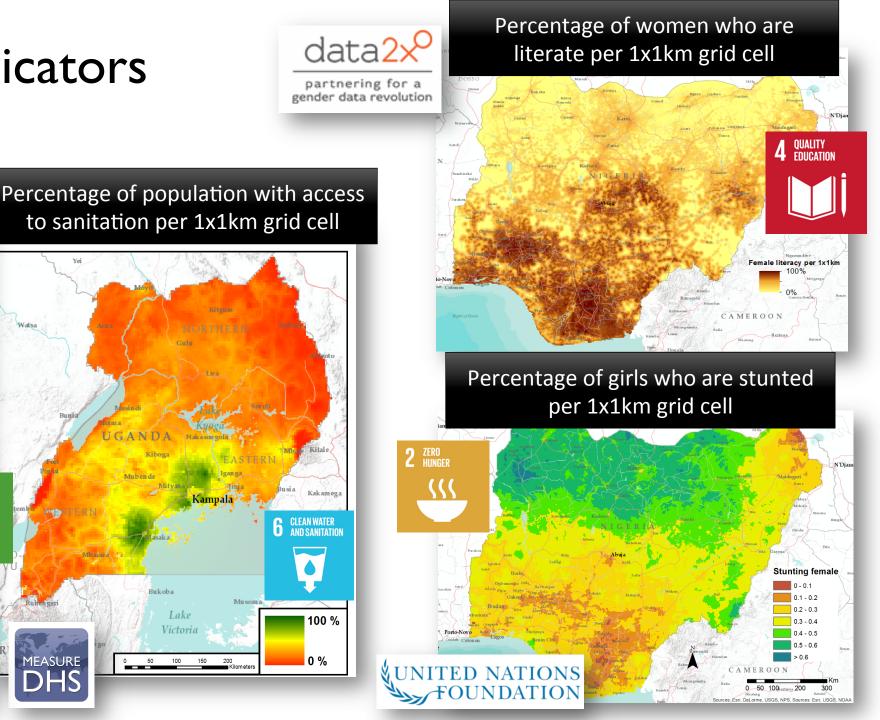
Lake

Victoria

Probability of receiving postnatal

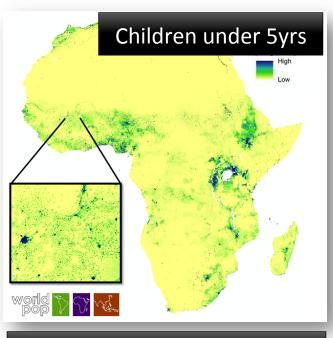
care within 48 hours of delivery

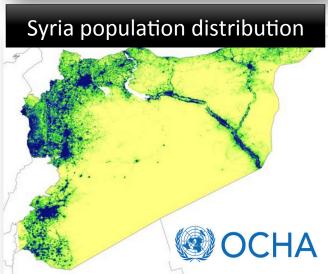
per district



Mapping connectivity and displacements 13 CLIMATE ACTION 3 GOOD HEALTH AND WELL-BEING FLOWMINDER.ORG **Above normal Artibonite River** population flows Kathmandu from Kathmandu 5,000 10,000 20,000 40,000 Epicentres

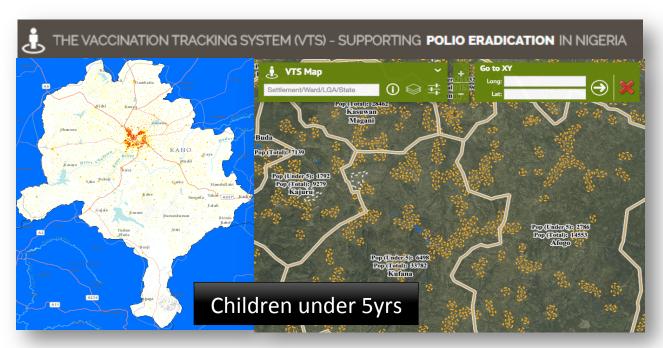
Datasets, methods already in use operationally

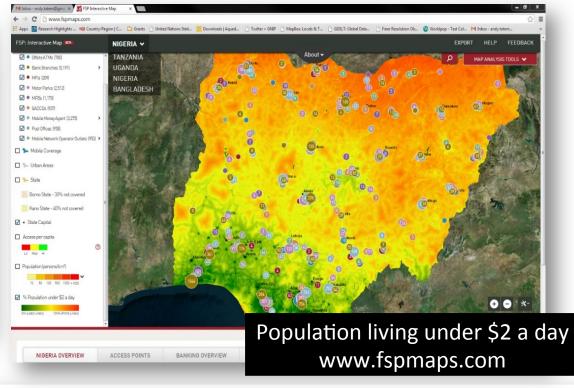


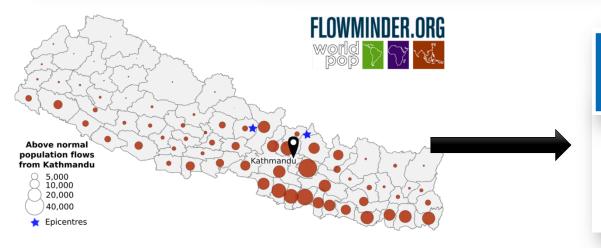




Datasets, methods already in use operationally







Landslides and displacement in earthquake affected areas Bi-weekly update 27 July 2015















Summary

- In producing estimates for different geographical scales and time periods, the integration of multiple types of data to compliment traditional sources is often required
- Novel datasets (e.g. phones, satellite) are prone to biases, but each has advantages over census data in terms of the frequency of measurement and spatial precision
- Methods to account for biases, reporting uncertainties and providing clear metadata/documentation to inform users are all important
- Great potential in complimenting traditional sources to strengthen demographic databases in Ghana for measuring progress towards the SDGs



Further information





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