

GRID³ NIGERIA



Evolution of GRID³



The idea behind GRID³ started with an effort to eradicate Polio in Nigeria, and grew out of the collaboration between UNFPA and WorldPop/Flowminder in Afghanistan.

To Help Nigeria Stop Polio, Bill Gate Launches "Governor's Immunization Leadership Challenge"

States eligible for \$500,000 grant to address pressing health issues

"If things stay stable in the conflicted areas, humanity will see its last case of polio this year."

- Bill Gates, in The Bill and Melinda Gates Foundation 2017 annual report



Evolution of GRID³



Fighting polio in Nigeria

- Geographic Information Systems (GIS) mapping work in 11 northern States in Nigeria from 2013 to 2015.
- Creation of maps to support polio micro-planning and serve as a base layer for GIS Vaccination Tracking System (VTS)
- As a result, GRID³ has expanded data collection and mapping across all states in Nigeria.

GIS data collection processes













Feature extraction processes





Field data collection





Settlement attributes as guide to ward boundary delineation





Delineated Ward boundary





GIS based ward boundary with HF catchment areas

GRID³ Nigeria Outcomes and Applications



GRID³

Population

National GRID³ Project

Opportunity

- The Polio Eradication Initiative has produced highresolution spatial data for settlements, boundaries and population.
- The country-wide data will be complete by end 2018.
- They will be available for immediate use where appropriate
- They can support spatial data development within Government agencies









National GRID³ Project



Approach

- Work with the Government of Nigeria to make effective and efficient use of geo-data across defined interventions Health, Education, Water Resources, Agriculture, Demography etc.
- Develop innovative tools to support decision and policy making across the country at all levels (Tools and Use-cases)
- Build in-country capacity/capability (Federal & State level)
- Use cross-cutting power of core reference layers to enhance Nigeria Data Ecosystem
- Achieve a coordinated approach to the use and application of geo-databases for common good of Nigerians

Settlements locations





280,120 settlement (place) names

Other Spatial Data Improvements





A total of 500,167 field points were downloaded from the Gather2 server at the end of the field data collection exercise in all the twenty-five GRID states and the FCT. A final check was carried out on all the devices used during the field data collection exercise to ensure that no data is left out. The average percentage coverage of all the 25 states and the FCT is 90%. This is the final status of the GRID3 data collection activities.

Govt. leadership & ownership is a critical success factor to GRID³ Nigeria

GRID³

- National Population Commission
- National Bureau of Statistics
- Ministry of Health & NPHCDA
- Ministry of Agriculture and Rural Development
- Ministry of Education & UBEC
- Ministry of Budget and Planning
- Ministry of Finance

- National Boundary commission
- Ministry of Water Resources
- OSGOF
- NASRDA
- Private Sector Organisations
- Development Partners (DFID, UNFPA)
- Global GRID³ team (DFID, UNFPA)

Coordination remained a key strategy



- → GRID³ seeks to promote effective coordination amongst stakeholders
- → Coordination Platform



Our Goals



Short/medium term goals (6-24 months)

- Form Steering and Technical Committees to coordinate & oversee the project.
- Establish a national data portal and build capacity to Maintain, Update and Use the data portal
- Set up a national Spatial Data Infrastructure (SDI) plan.
- Achieve national consensus on boundary delineations at ward and local government area (LGA) levels.

Our Goals



Long term goals (>24 months)

- Develop and promote examples of data usage on health, education, agriculture, water resources, etc.
- Support planned national population and housing census activities and surveys
- Develop in-country capacity to maintain and drive the GRID3 philosophy in a sustainable manner
- Continue to maintain and update the data portal

Census in Nigeria: paradigm shift to GIS technology



GRID³



- Cost & Time reduction are some of the benefits of GIS based census process
- Generally, GIS application cut across the three stages in the census process:
 - Pre-enumeration
 - During enumeration
 - Post-enumeration
- Heterogeneity and complexity of census datasets requires appropriate tools such as Satellite Remote Sensing (SRS) and GIS to handle it.

Digitised maps





Digitised Ward and LGA map: FCT

Digitised supervisory area map: FCT

Automatic Designation of Sensible Enumeration Areas (EAs): GRID³ perspective for improved planning



Enumeration area demarcation (EAD) is a key component of population census planning. It involves approaches that requires population estimation before demarcating EAs for census.





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Thanks for listening