49th Session of the UN Statistical Commission
Statistical-Geospatial Integration Forum:
Integrating statistical, geospatial, and other Big data to leave no one behind

Geography for the 2020 Round of Census

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05 March 2018
Years for 2020 round of censuses
Role of geography in census

- Maps provide the cartographic base for enumeration and the platform for spatial census data products.
GIS mapping technology

- Timeliness of mapping as boundaries are constructed on the spot
- High quality enumeration area boundaries to avoid omission or duplication
- Accuracy & consistency in classification of features captured during mapping
- Mapping infrastructure, road systems
GPS locations of households improve spatial resolution of census data
Combining household GPS locations with high resolution satellite imagery to ensure household coverage
GPS listing of households facilitates enumeration monitoring/ tracking
Value of GIS mapping for data analysis, presentation & dissemination

- Digital statistical products for data dissemination
- Accessible dashboards, portals, and GIS-based platforms for storage, analysis, and presentation of spatial and non-spatial information
- Dynamic Online Interactive Live Mapping & Spatial-Analysis
- Facilitating public access to the integrated geospatial data
Mapping key development indicators

- Child Marriage in Zambia
- Mapping Access to Basic EmONC in Togo

Results of accessibility cover at national scale, at 120min
Comparison between scenarios

National cover of number of deliveries where pregnant women live at
distance not exceeding 120min from a BEMOC:
Walk + moto vehicle: 83%
Taxi-moto: 95%

Percentage of cover per region:

<table>
<thead>
<tr>
<th>Region</th>
<th>Perc. of cover Walk + motor</th>
<th>Perc. of cover Taxi-moto</th>
</tr>
</thead>
<tbody>
<tr>
<td>PLATEAUX</td>
<td>70</td>
<td>94</td>
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</table>
Using GIS settlement layers to update census-based survey sampling frames

Source: Nigeria GIS population estimates – A joint project by ORNL, Flowminder and the Bill & Melinda Gates Foundation
UNFPA priorities for the 2020 census round

- High resolution geo-referenced census data
- Technical assistance for census cartography & GIS
- Support hybrid census, where full enumeration is not possible
- Capacity development for greater use and dissemination of georeferenced census data, including integration of census data with other geospatial datasets
Thank You