

Integrating geospatial information in census- UNFPA priorities for the 2020 round

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Value of GIS



- Improves the precision of cartography, for cleaner boundaries, and quality assurance of census coverage
- 2. Enables the integration of different data sources (remote sensing, census, surveys), for higher resolution information (data disaggregation) and census estimations
- 3. Allows comparability of census data over time, by providing raster data independent of changing administrative boundaries and EAs

Why GIS is important for UNFPA strategy for the 2020 census round



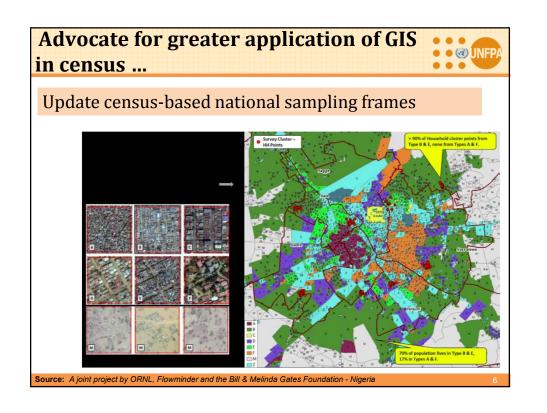
- 1. Increasing demand for disaggregated data for SDGs, and regional & national development
 - 98 SDG indicators require population data for their calculation
- 2. The Independent Evaluation of UNFPA support to the 2010 census called for increased dissemination and use of census data- geocoded census data enables more efficient, effective & wider dissemination & use
- 3. Potential to use geo-coded census data to generate estimates of populations affected by humanitarian crises

UNFPA GIS priorities for the 2020 census round-



- 1. Advocate for greater application of GIS in census
- 2. Strengthen national capacity for production and use of high resolution geo-referenced census data
 - Overall capacity strengthening –a top SDG priority – Target 17.18-with a target for year 2020-
 - Map census data at lower geographic levels for development planning, implementation, monitoring & reporting
 - Capitalize on GIS to integrate census & survey data for small area estimation
- 3. Support Hybrid Censuses

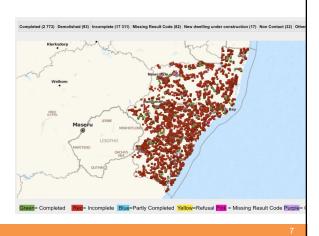
Advocate for greater application of GIS in census ICT/Mobile enabled censuses South-South partnership within Africa and LACRO to promote hand-held devices facilitating GPS



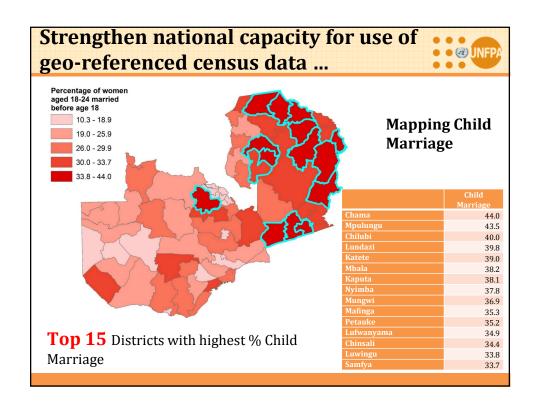
Advocate for greater application of GIS in census ...

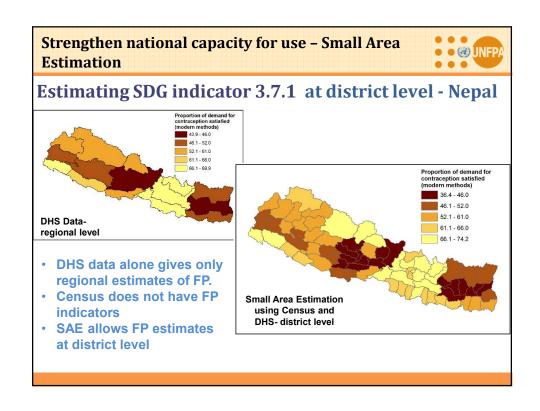


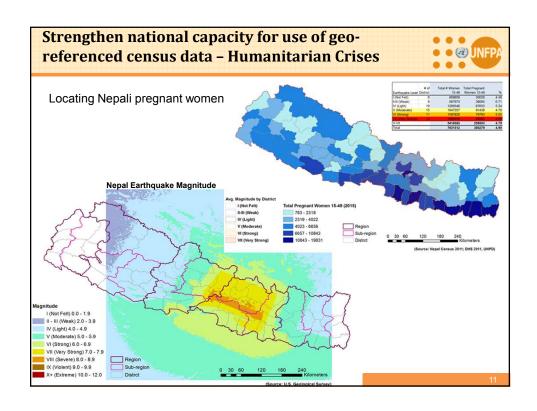
- Using satellite imagery of settlement patterns to verify enumeration areas
- Enable navigation (GPS) to HH by fieldworkers
- Real-time monitoring of enumeration



Strengthen national capacity for use. . . • • @ UNFP of geo-referenced census data **Using GIS/Accessmod to map** Marche Taxi-moto Geographic accessibility to **Basic EmONC in Togo** Perc. of cover Perc. of cover Region Walk + motor Taxi-moto PLATEAUX 70 KARA 75 91 MARITIME CENTRALE 73 94 SAVANES 94 LOME_COM N. Ray (University of Geneva/GRID)



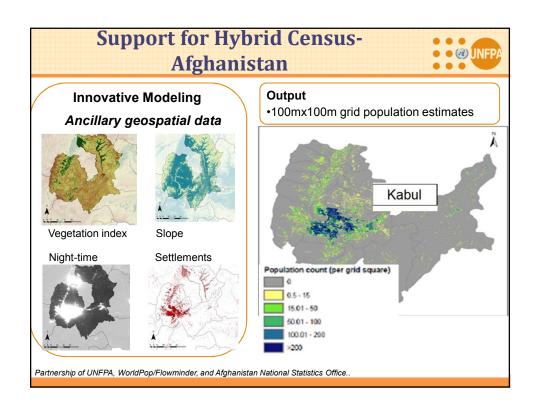




Strengthen national capacity for use of geo-referenced census data

- Post-enumeration survey for quality assurance and validation
- Digital statistical products for data dissemination
- Promoting GIS-based platforms for public access

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GRID Project



Partnership: UNFPA, WorldPOP/Flowminder, DFID, BMGF, CIESIN

<u>Goal</u>- Supporting governments to improve production, use and sharing of high-resolution population, settlement, and infrastructure data

- Further work on promoting use of geospatial population data with other geospatial datasets (range of African countries)
- Use of high resolution geospatial settlement layers and micro-census data to generate population estimates where a census is not possible (beyond Afghanistan)

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Census GIS collaboration



- Supporting censuses in 135 countries:
- Multi-lingual experts for expanding UNFPA regional census rosters in GIS-related work
- In-country and regional partnerships for GIS capacity strengthening – sustainable academic partnerships
- Guidelines, tools, and standards

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Thank you

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