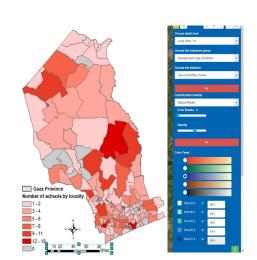


The 2020 Census Round- Emerging capacity needs

New technologies, innovation, expertise

Capacity to use GIS in census, analysis & dissemination



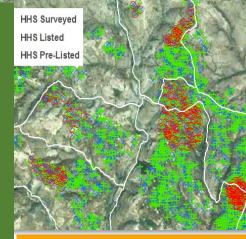
Increased use of handheld devices



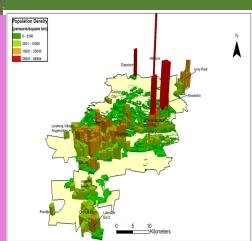
Digital cartography & use of satellite imagery



Using GIS to improve census quality



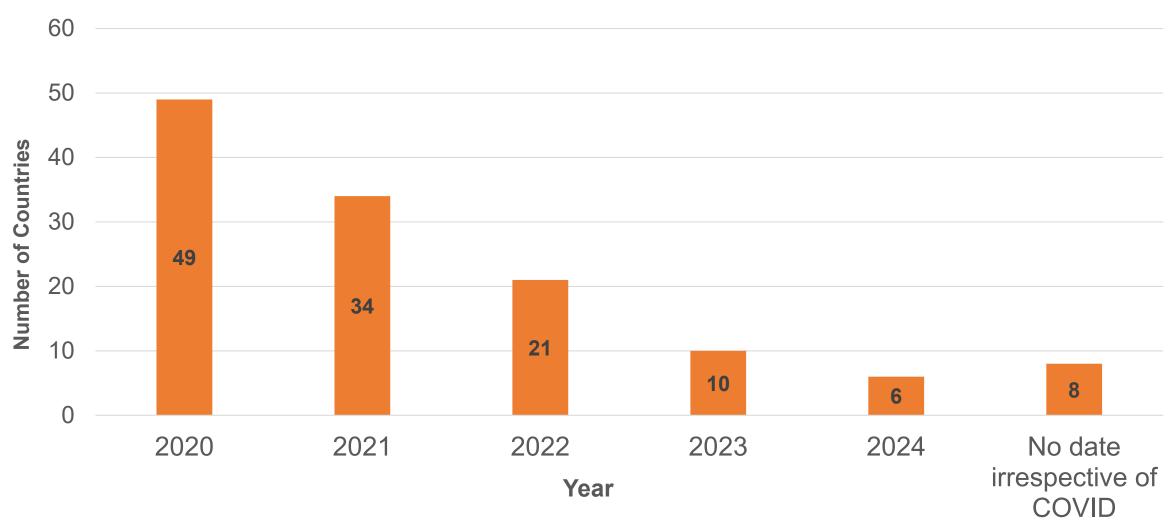
Wider use of census data



High-resolution modelled population estimates, where enumeration is not possible

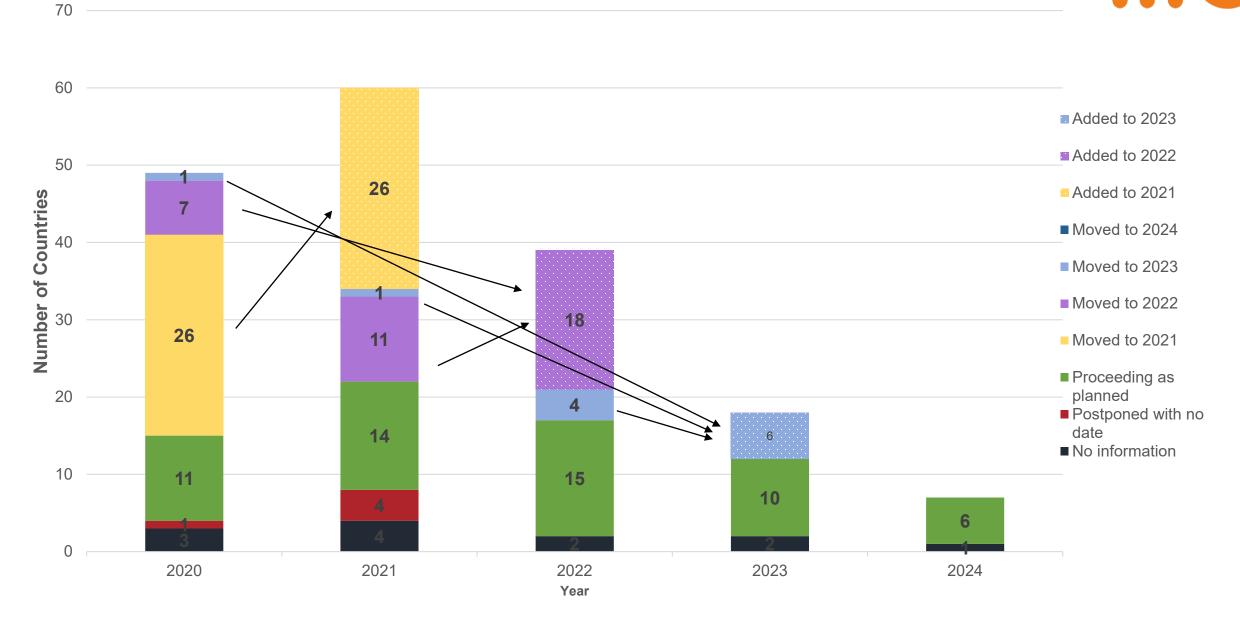


2020 Census Round Schedule Pre-COVID-19



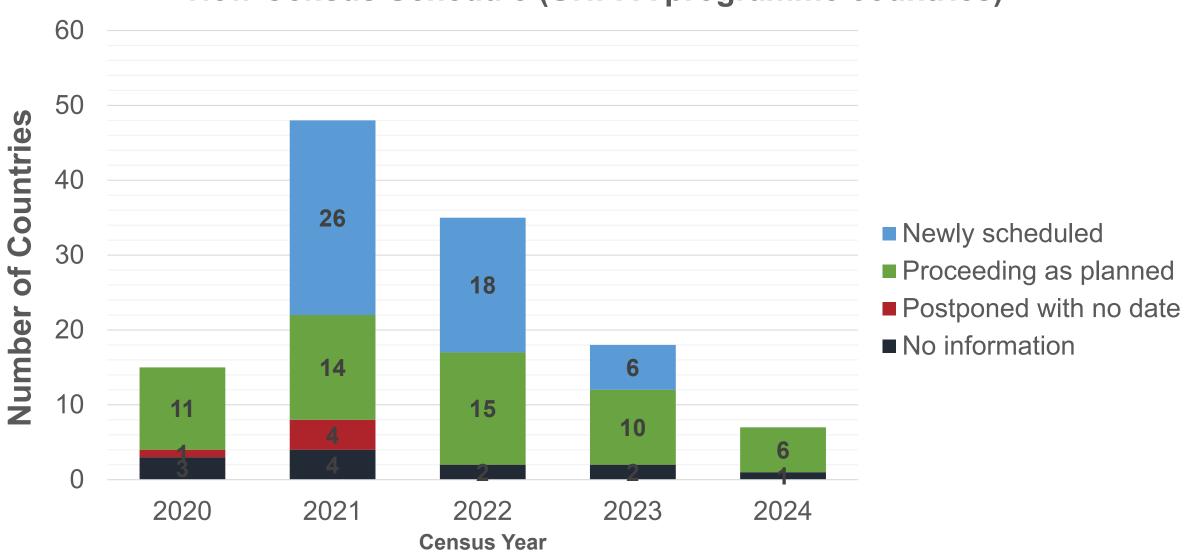
Impact of COVID-19 on Census Schedule







New Census Schedule (UNFPA programme countries)





UNFPA supportunder COVID-19

- Capacity strengthening
 - Virtual learning
 - Remote technical assistance
- New tools
- Procurement
- Technical briefs and guides



Capacity strengthening





TRANSITION TO eLEARNING

- Census eLearning modules

REMOTE TECHNICAL ASSISTANCE



O

New tools and innovative approaches

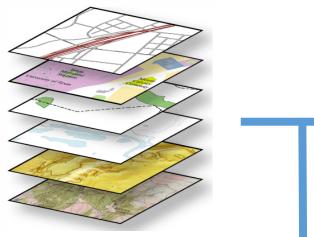
- Pre-enumeration area delineation tool
- Census cartography assessment tool
- COVID-19 population vulnerability dashboard

Input data

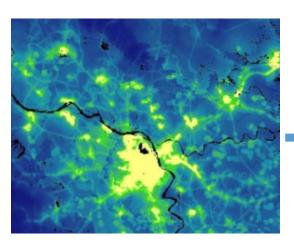
Splitting process

Merging process

Georeferenced layers (e.g. road, river, railways, etc)



High-resolution gridded population data or building footprints

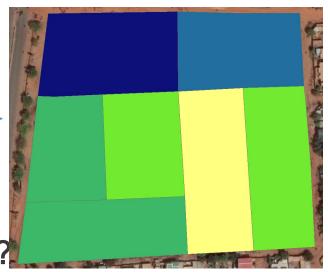


How the pre-EA tool works?

Building blocks

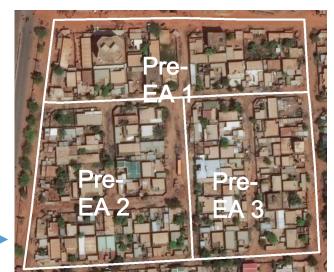


Building blocks with total population



Hard Constraints:

- Population (Max)
- Area (Max)
- Uncrossable Border
- Min Boundary Length
- Regional constraint



Pre-Enumeration Area (EA) outline

Pre-EAs with total population

Soft Constraints: • Target (Pop & Area) • Homogeneity (Socioeconomic) • Shape (Compactness)

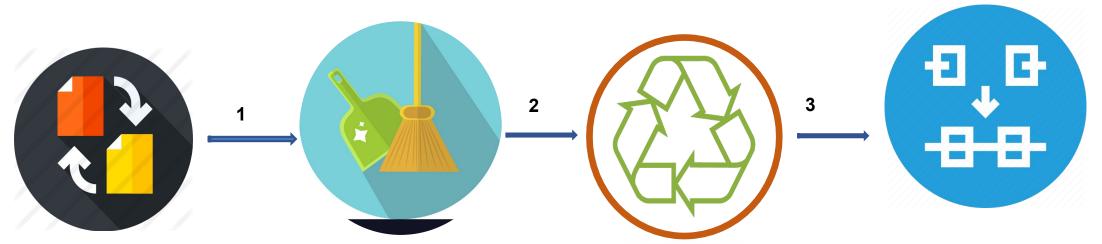
Source: WorldPop



Census Cartography Assessment Tool (CCAT)

A GIS-Based Automated EA validation tool





Cartography data input (hh mapping, boundary layers, infrastructure & feature points

Spatial data classification & verification (Region, District, EA, rural/urban, GPS coding

Threshold setting (EA size- urban & rural/ mixed)

Spatial data analysis (Data linkages, segregating data points,

Urban EAs with:

- ·HH less than threshold
- ·HH More than threshold

Rural EAs with:

- ·HH less than threshold
- ·HH more than threshold

Outlier hh:

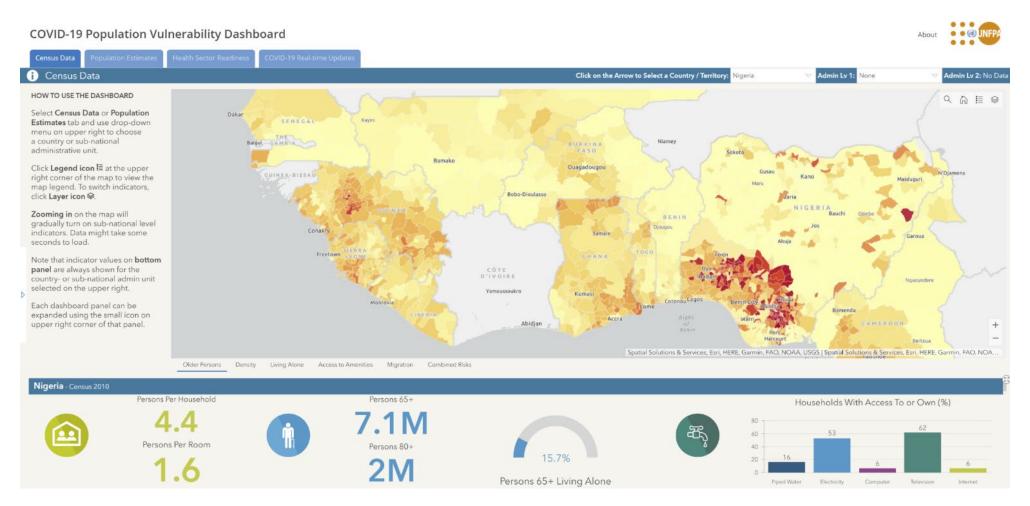
- located outside EA boundary
- with no GPS



EA summary statistics (Rural and Urban)

COVID-19 Population Vulnerability Dashboard





https://covid.pdp.unfpa.org/





Procurement of PPE for census

 Updated UNFPA Guidance on Procurement and Use of Supplies in response to COVID-19- to include Census as a programme and supply priority under COVID-19 Fast Track Procedures

Guidance Note: UNFPA Technical and Operational Support to the 2020 Census Round

December 2020

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Technical Brief on the Implications of COVID-19 on Census

Update No. 1, March 25, 2020





Technical Guidance Note

Keywords: Population and Housing Census, Personal Protective Equipment (PPE)

Guidance Note on Personal Protection Equipment (PPE) Recommendations for Census



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covided related technical briefs and guides

