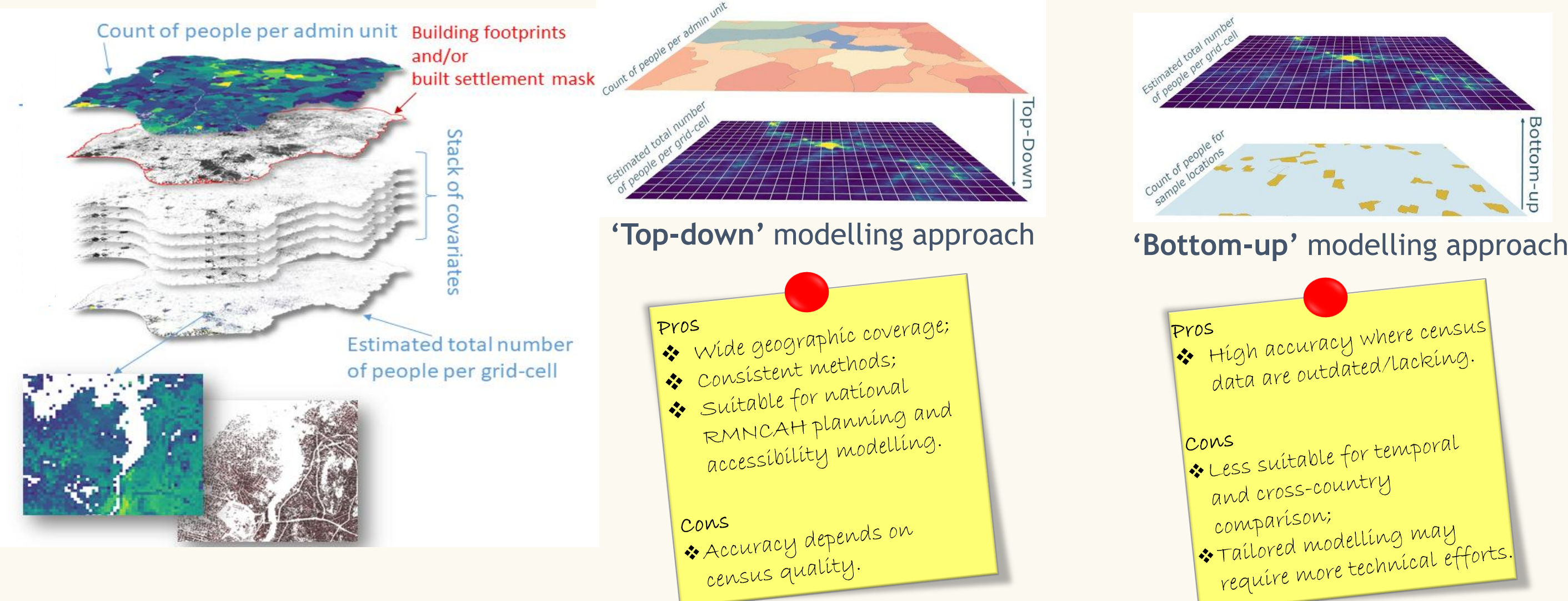


GRIDDED POPULATION ESTIMATES

WorldPop's gridded population estimates are produced from the harmonisation of sub-national census-based or official population projection data, administrative boundaries, built settlement growth data, and covariates, aligned to a base grid, at approximately 100m at the equator.

These are either constrained to built settlements or unconstrained using two broad modelling approaches: 'Top-down' disaggregation and 'Bottom-up' estimation.



WHY DO THESE MATTER FOR RMNCAH?

All population data are available at the grid/pixel level and can be aggregated to any administrative level, census enumeration area, catchment area or any preferred boundaries.



Population Data Use Cases for RMNCAH

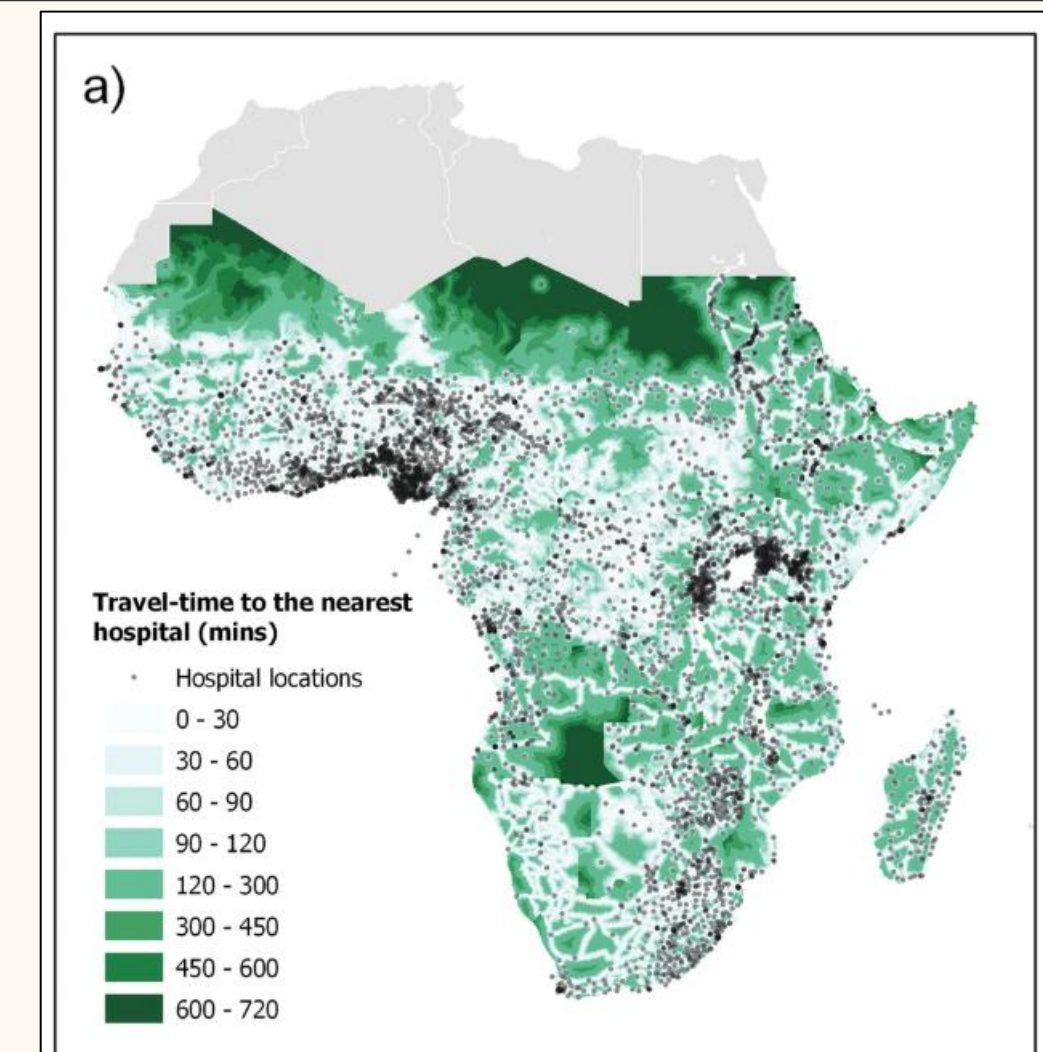
This flexibility allows RMNCAH programs to identify underserved areas, calculate accurate population counts, estimate coverage and plan interventions at the level where decisions should be made.

These analyses include:

Enhanced accessibility and equity analysis:

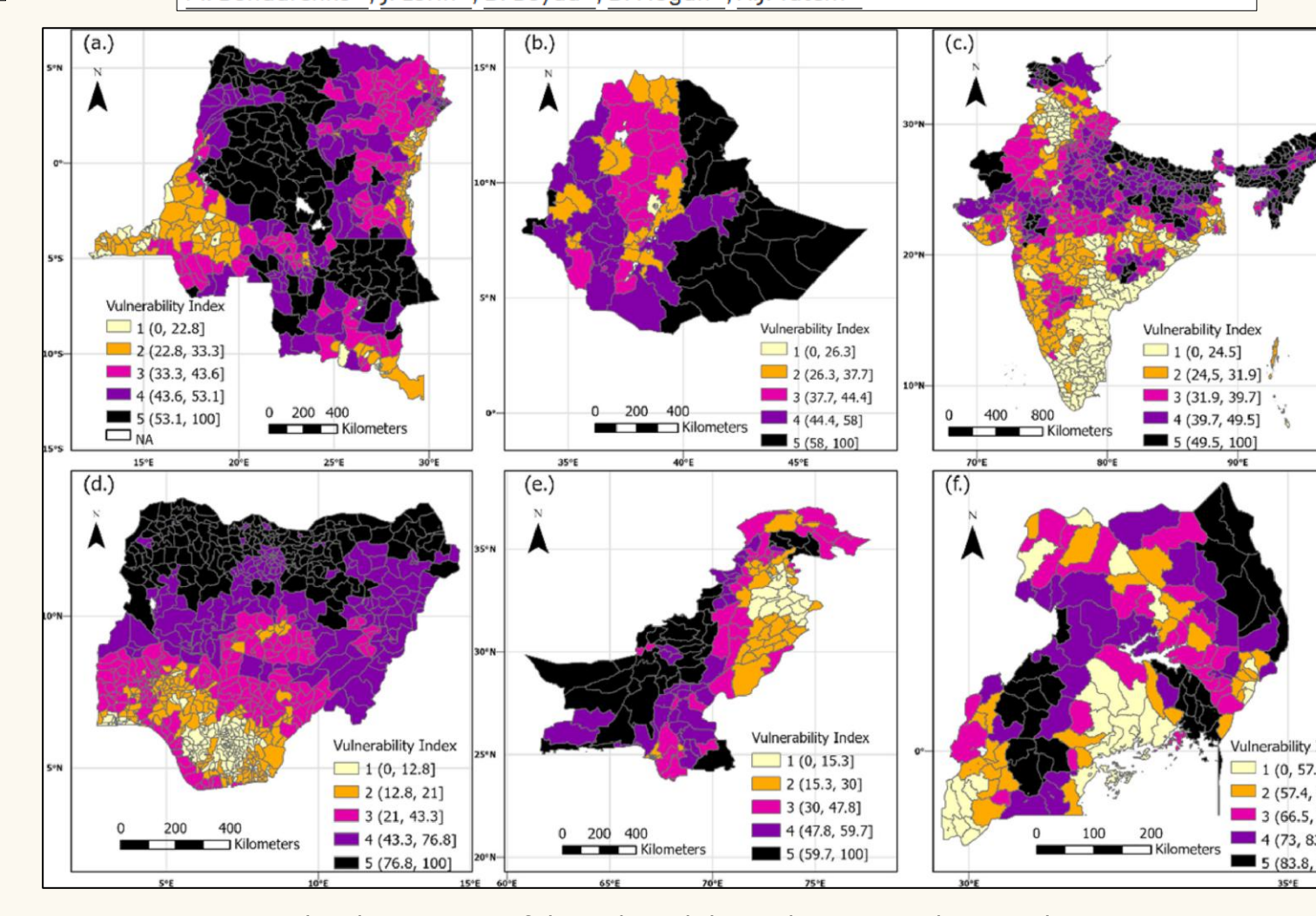
Measuring the availability and geographical accessibility of maternal health services across sub-Saharan Africa

A. S. Wigley^{1,2}, N. Tejedor-Garavito¹, V. Alegana^{1,3,4}, A. Caron¹, C. W. Ruktanonchai¹, C. Pezzullo¹, Z. Matthews¹, A. J. Tatem¹ and K. Nilsen¹



A zero-dose vulnerability index for equity assessment and spatial prioritization in low- and middle-income countries

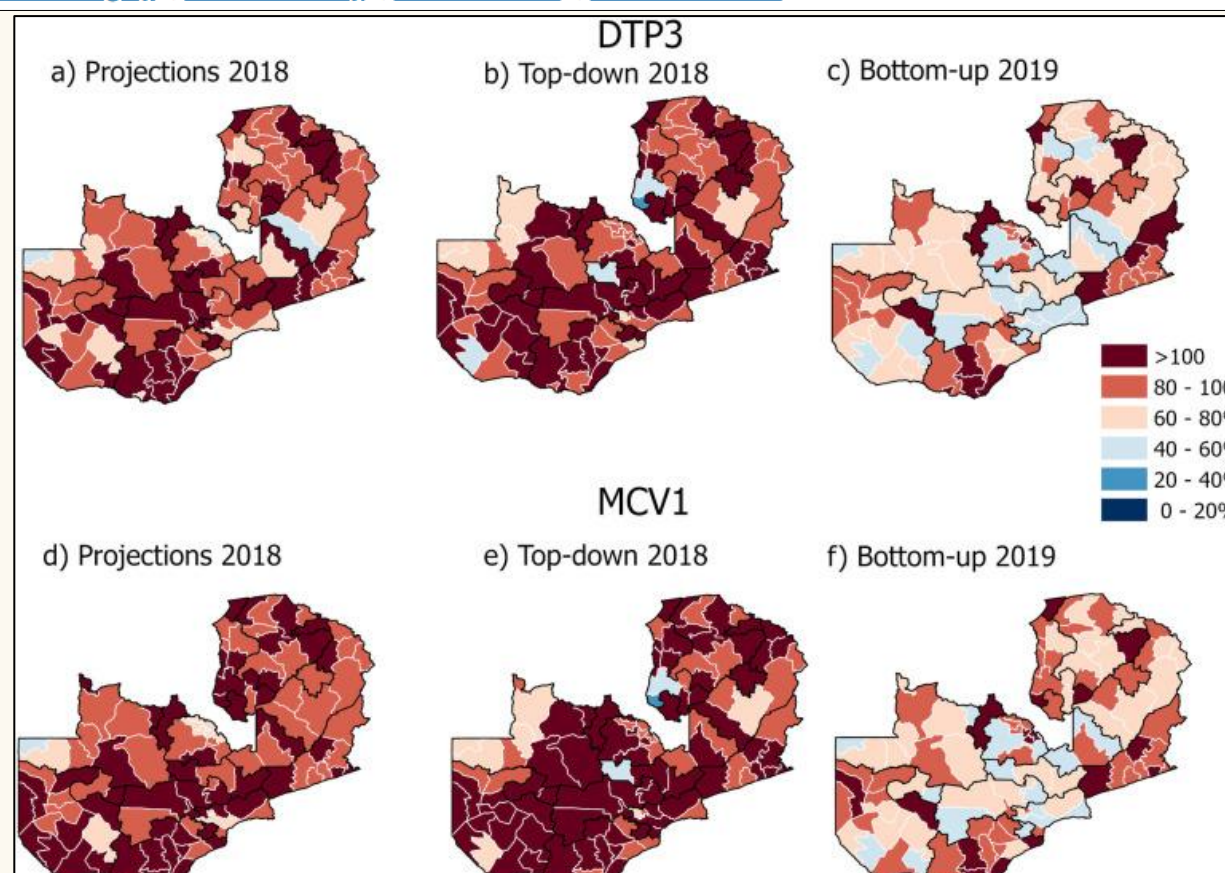
C.E. Utazi^{1,2}, H.M.T. Chan¹, I. Olowe¹, A. Wigley¹, N. Tejedor-Garavito¹, A. Cunningham¹, M. Bondarenko¹, J. Lorin¹, D. Boydo¹, D. Hogan¹, A.J. Tatem¹



Estimating RMNCAH indicators at sub-national levels:

A review of geospatial methods for population estimation and their use in constructing reproductive, maternal, newborn, child and adolescent health service indicators

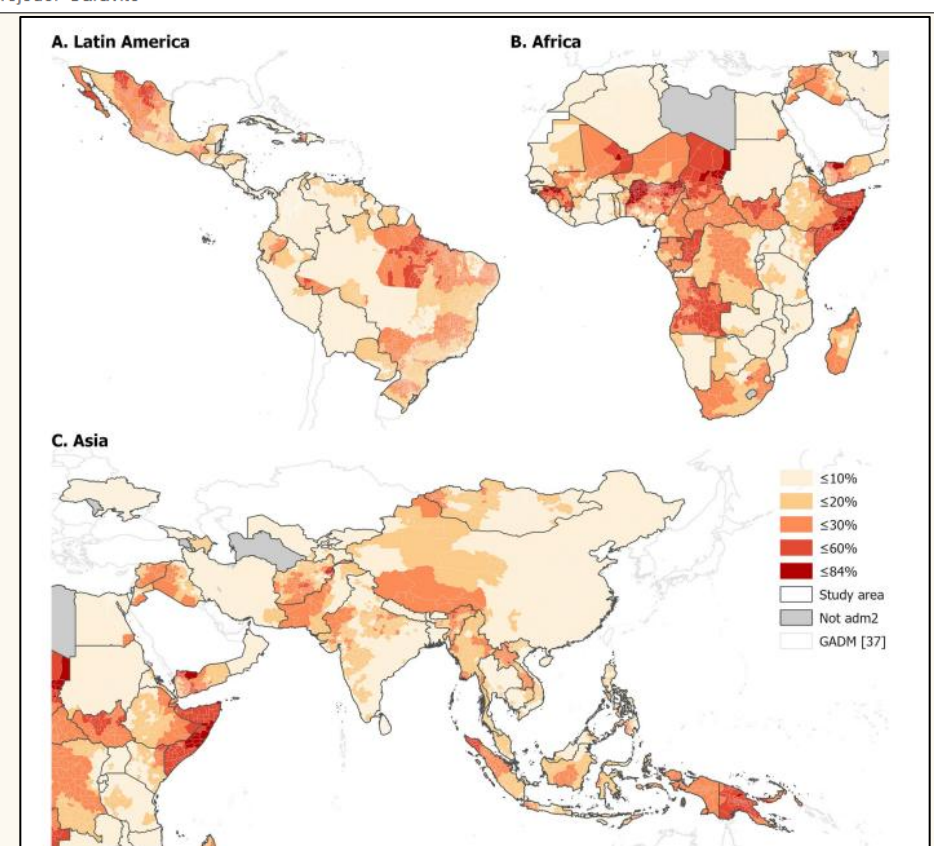
Kristine Nilsen^{1,2,3}, Natalia Tejedor-Garavito¹, Douglas B. Leasure¹, C. Edson Utazi¹, Corinne W. Ruktanonchai¹, Adelle S. Wigley¹, Claire A. Dooley¹, Zoe Matthews¹, Andrew J. Tatem¹



Identifying underserved and high-need population such as zero-dose or under-vaccinated children:

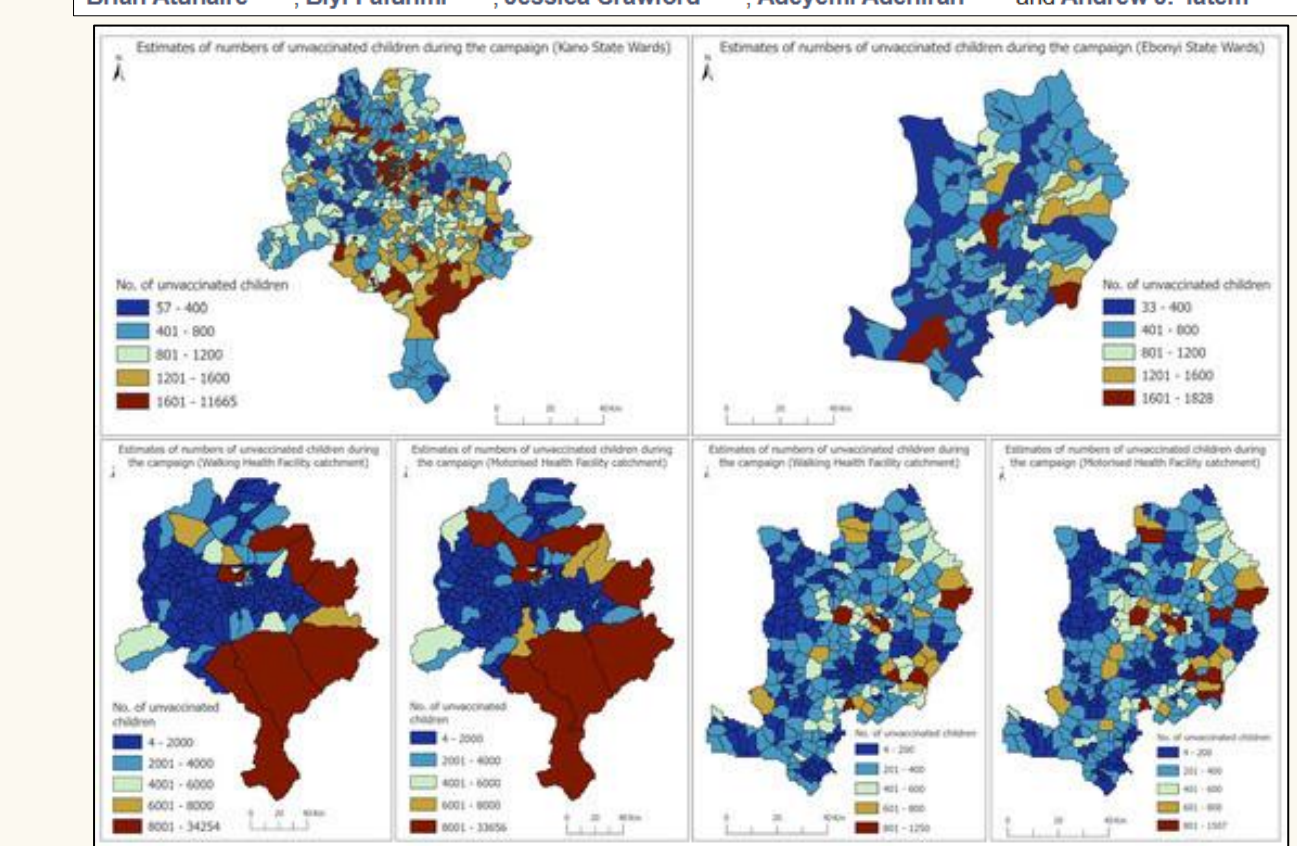
Estimates of the number and distribution of zero-dose and under-immunised children across remote-rural, urban, and conflict-affected settings in low and middle-income countries

Adelle S. Wigley¹, Josh Lott, Dan Hogan, C. Edson Utazi, Brittany Hagedorn, Emily Damsere, Andrew J. Tatem, Natalia Tejedor-Garavito



Geospatial Variation in Vaccination Coverage and Zero-Dose Prevalence at the District, Ward and Health Facility Levels Before and After a Measles Vaccination Campaign in Nigeria

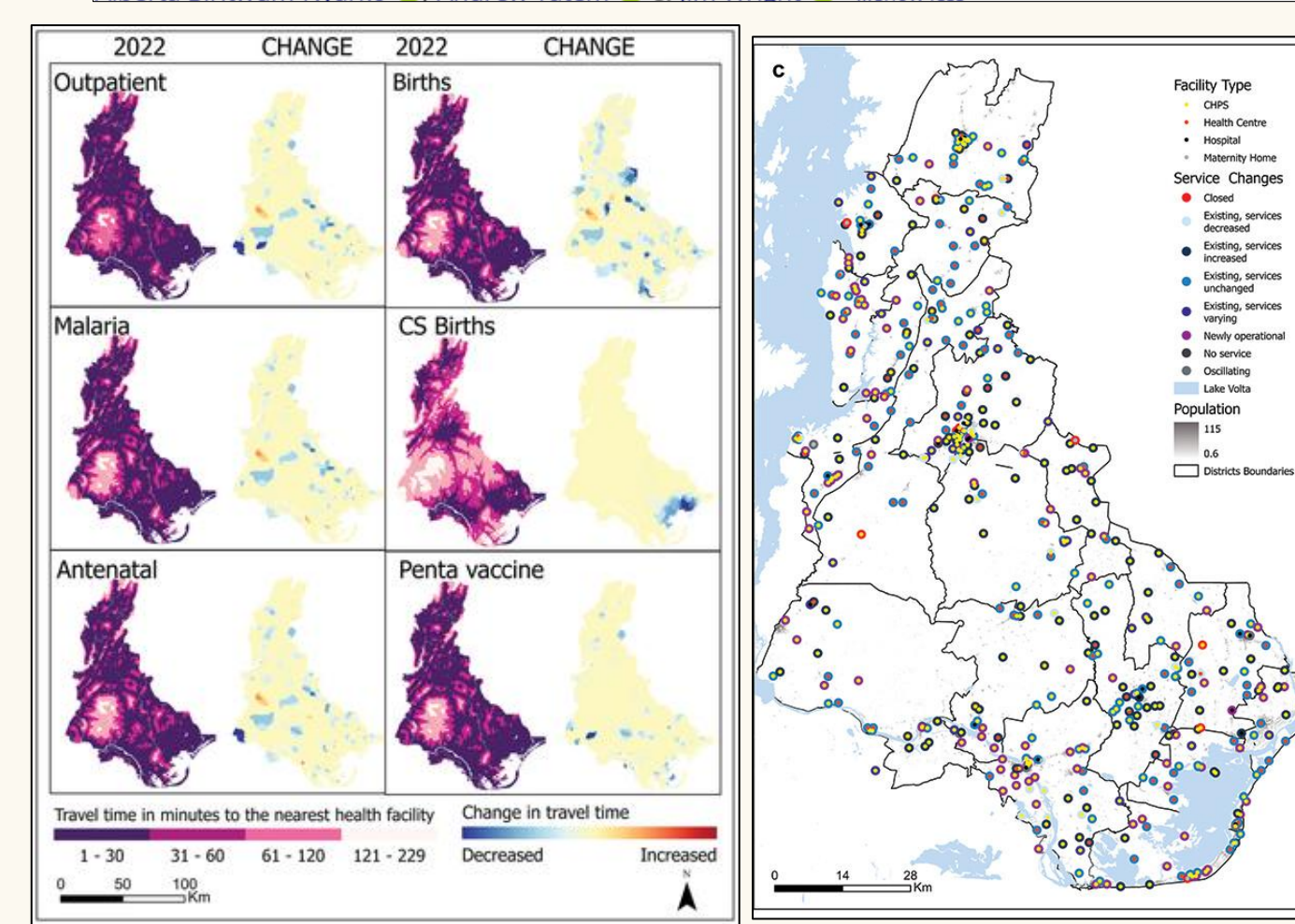
C. Edson Utazi^{1,2,3}, Iyanuloluwa D. Olowe¹, H. M. Theophilus Chan¹, Wifred Dotse-Gborgborts¹, John Waga⁴, Jamia A. Umar⁵, Sulaiman Elamasso⁶, Brian Aduhure⁷, Blyi Fatunmi⁸, Adeyemi Adeniran⁹ and Andrew J. Tatem¹



Improved health service delivery across catchment areas:

Spatio-temporal patterns of health service delivery and access to maternal, child, and outpatient healthcare in Volta region, Ghana: a repeated cross-sectional ecological study using health facility data

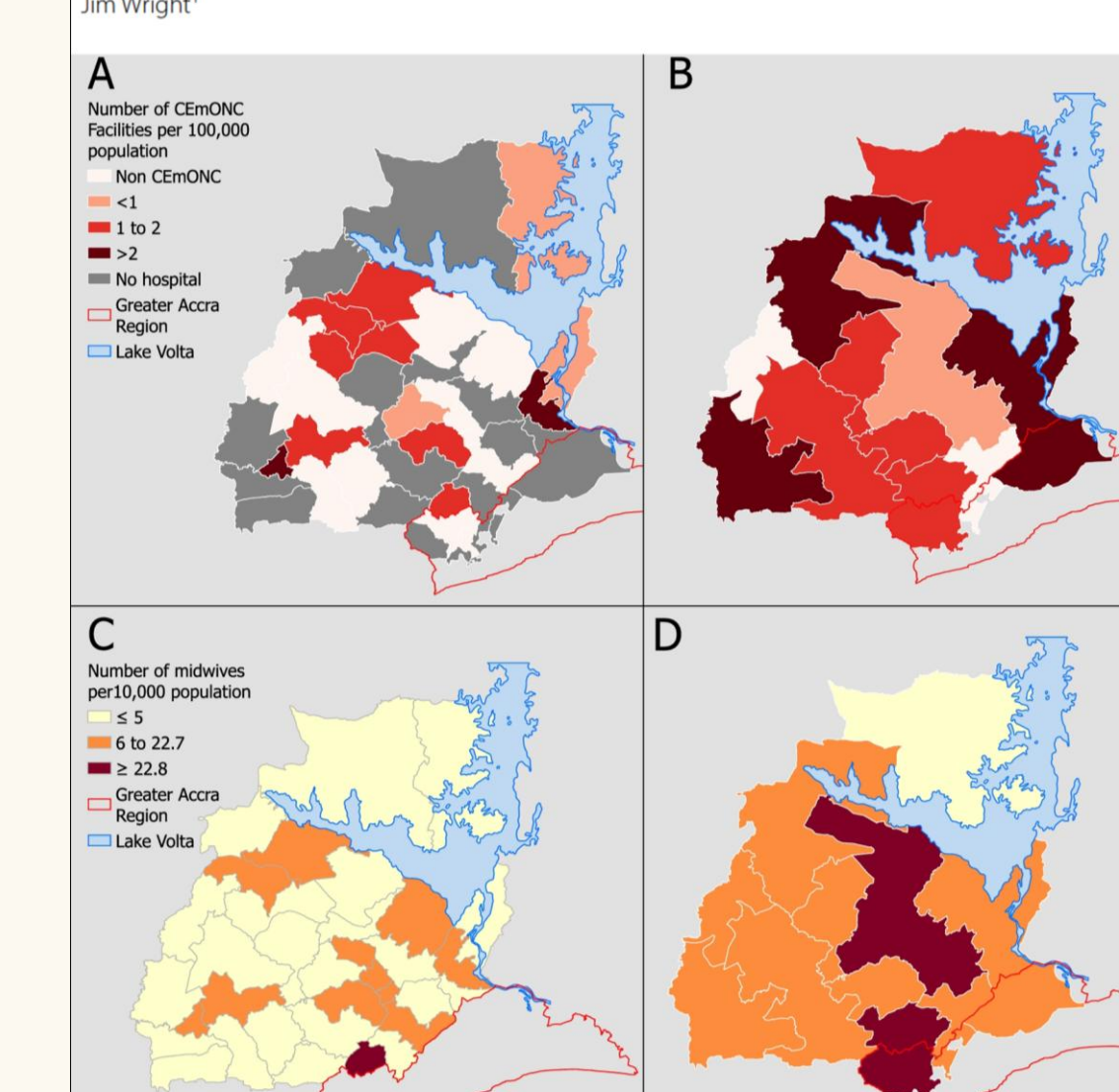
Wifred Dotse-Gborgborts¹, Kristine Nilsen², Oris Yankey³, Anthony Ofori⁴, Thomas Ankomah⁵, Eric Tweneboah⁶, Ignatius Akikpe⁷, Chrysantus Kubio⁸, Alberta Birikum-Nwarko⁹, Andrew Tatem¹⁰ & Jim Wright¹¹ [show less](#)



Spatial distribution of health facility types and changes in services provided overlaid on 2022 population in Volta region, Ghana

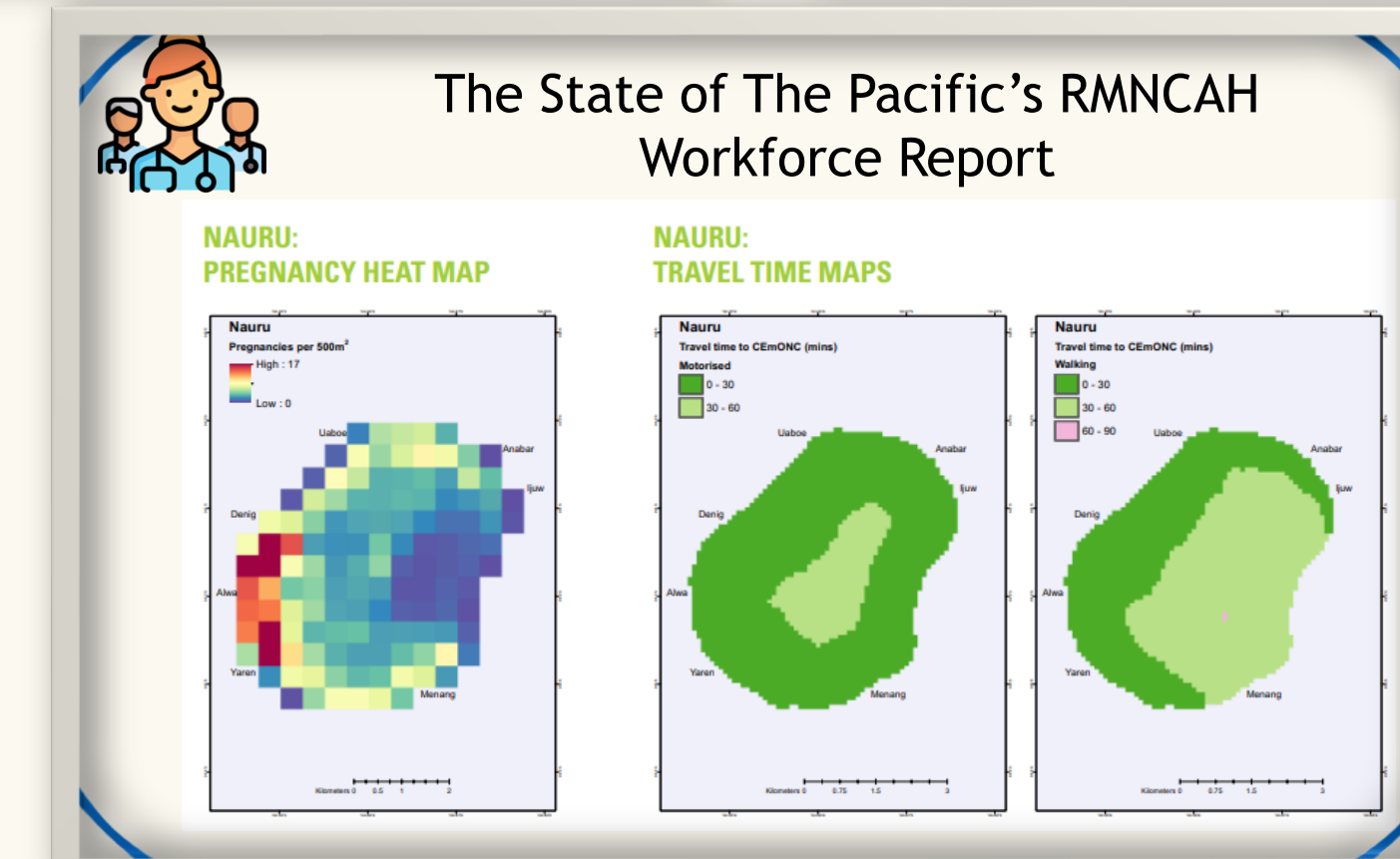
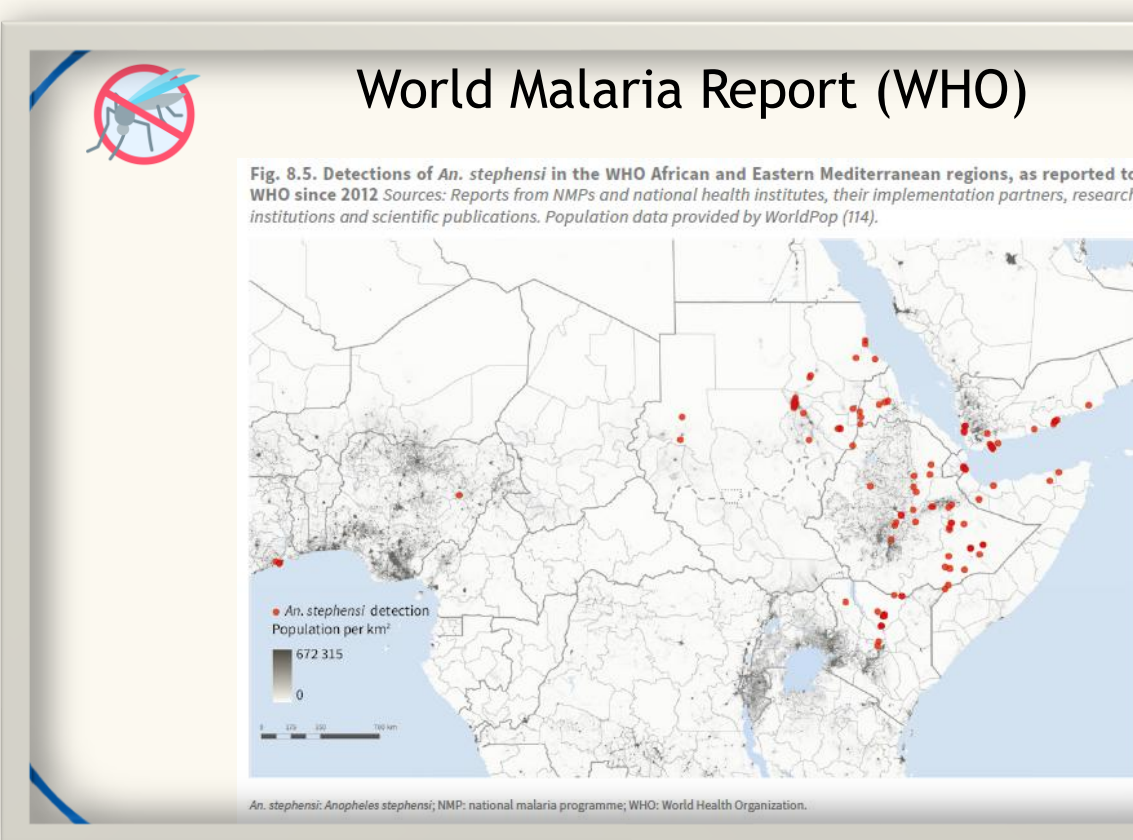
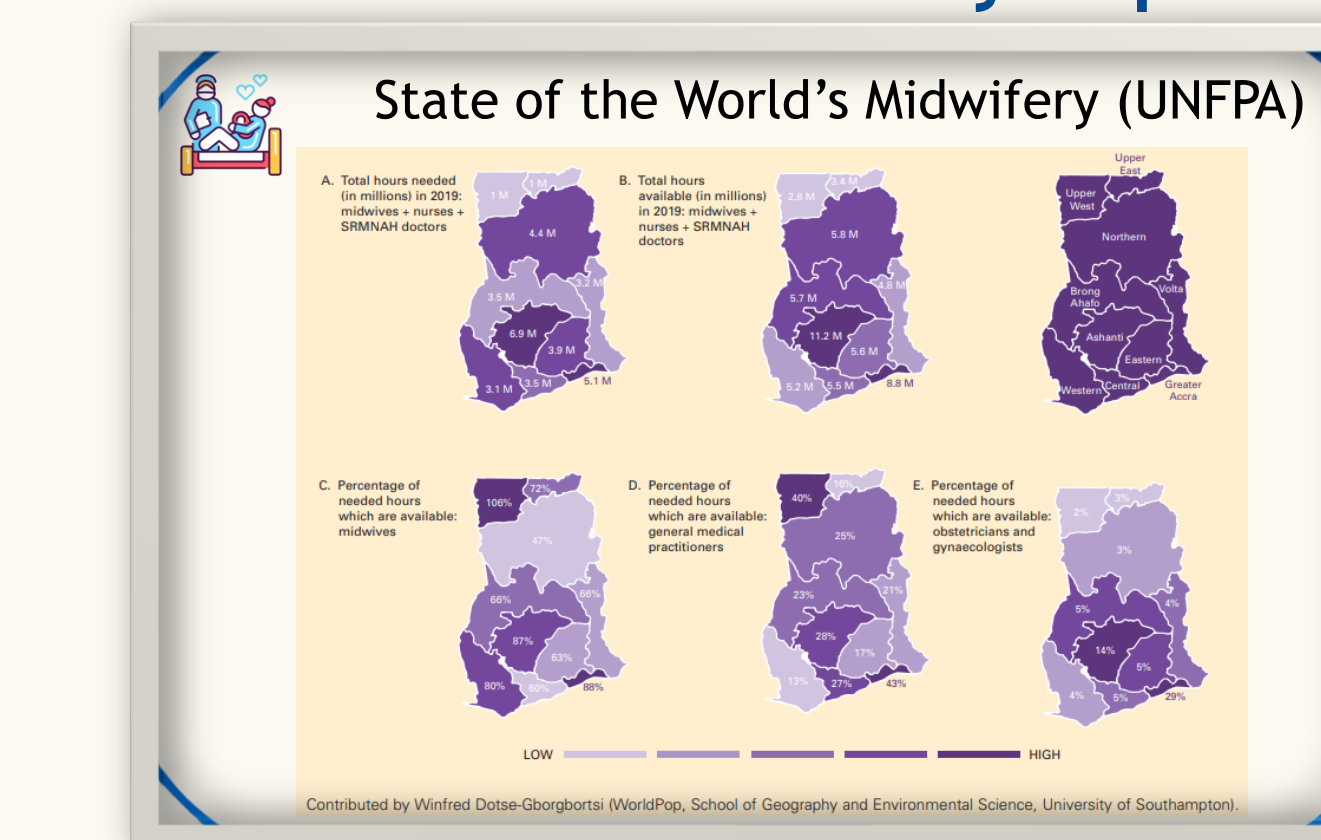
Delineating natural catchment health districts with routinely collected health data from women's travel to give birth in Ghana

Wifred Dotse-Gborgborts^{1,2}, Andrew J. Tatem^{1,2}, Zoe Matthews³, Victor Alegana⁴, Anthony Ofori⁵ and Jim Wright⁶

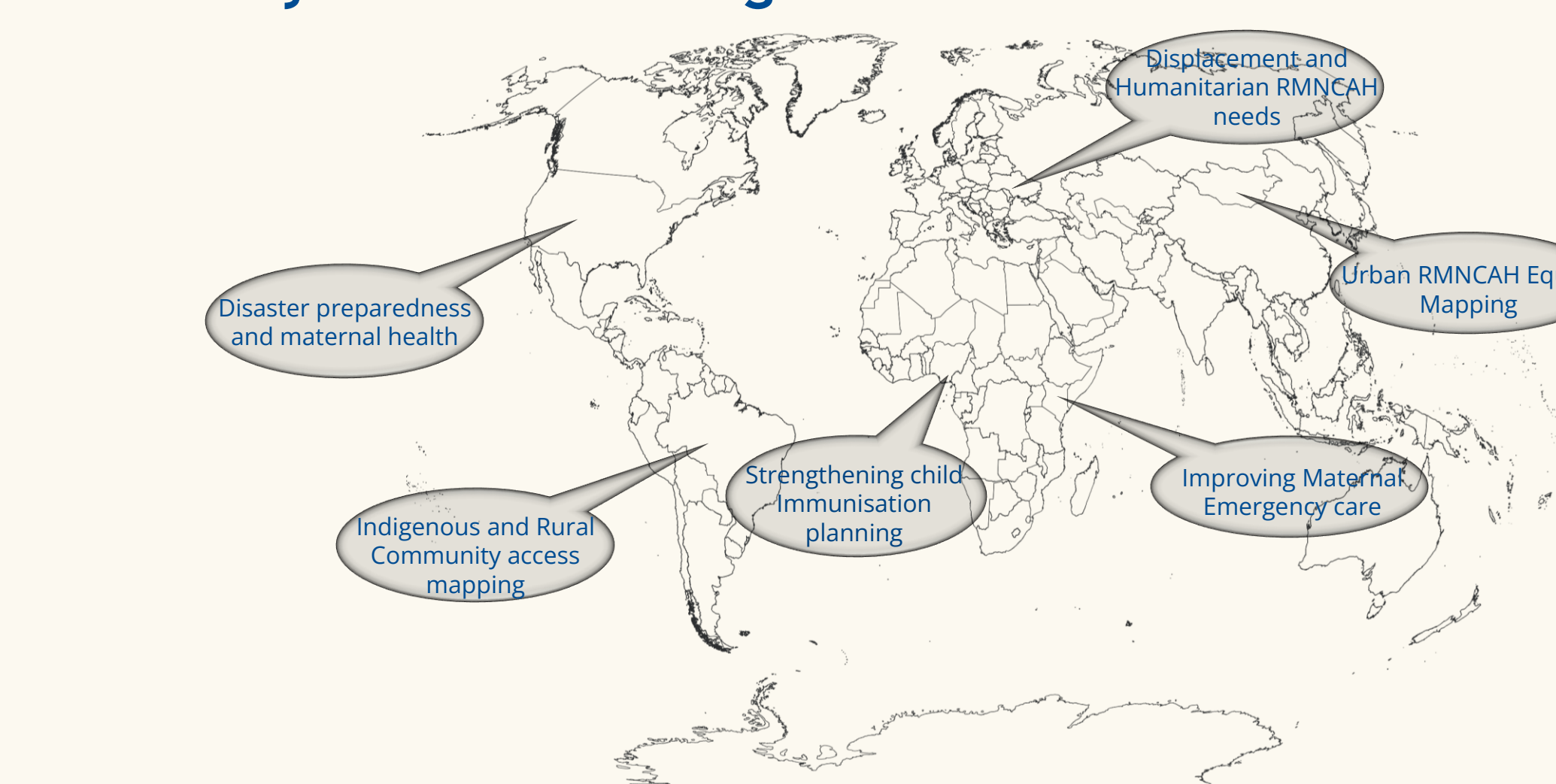


WORLDPOP POPULATION DATA IN RMNCAH POLICY MAKING

Used in Global Policy Reports



Policy Uses Across Regions and Countries



When countries leverage high-resolution population, such as WorldPop data, RMNCAH policies can be made more precise, equitable, and effective, enabling better targeting of resources, improved planning, and more informed decision-making.

Acknowledgement

The Countdown to 2030 project is funded by Gates Foundation Grant Number INV-042414, "Phase III of Countdown to 2030." All icons used from <https://www.flaticon.com>

DID YOU KNOW?

Free: All WorldPop datasets are open access, free, no registration required;
Flexible: Custom small-area estimates can be generated for any country or region;
Easy: No coding required if using the peanutButter web app or QGIS pypopRF plugin;
Ready to use: Outputs can be analysed in any GIS software or RMNCAH planning tool.