

Thailand

Cambodia

Vietnam

**Global High-Resolution Population
Denominators (WorldPop Global)**



FLOWMINDER.ORG

Alessandro Sorichetta



world
pop



Research Program within the Dept. of Geography & Environment for the University of Southampton focusing on **methods for improving the demographic evidence base** in low/middle income countries

FLOWMINDER.ORG

Non-profit foundation working with data providers and international/gov agencies to **operationalize and scale research in support of vulnerable populations and sustainable development** in low/middle income countries

WorldPop Global Project

BILL & MELINDA
GATES foundation



UNIVERSITY OF
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University of Southampton



Tatem A., A. Sorichetta, S. Saxton, M. Bondarenko,
C. Lloyd, D. Kerr, H. Chamberlain, S. Dutka, J. Nieves,
C. Pezzulo, A. Carioli, and S. Hanspal

Gaughan A. , F. Stevens, P. Sinha, and P. Reed

Linard C.

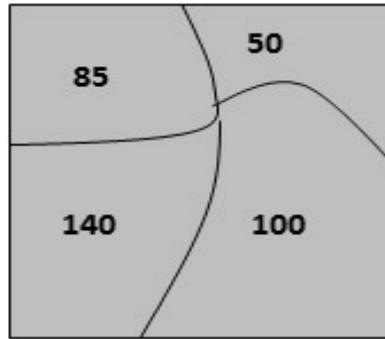
Sadler J. , I. Wadlock, J. Austin, and G. Hornby

Yetman G., L. Pistolessi, J. Mills, O. Borkovska, K.
MacManus, and S. Adamo

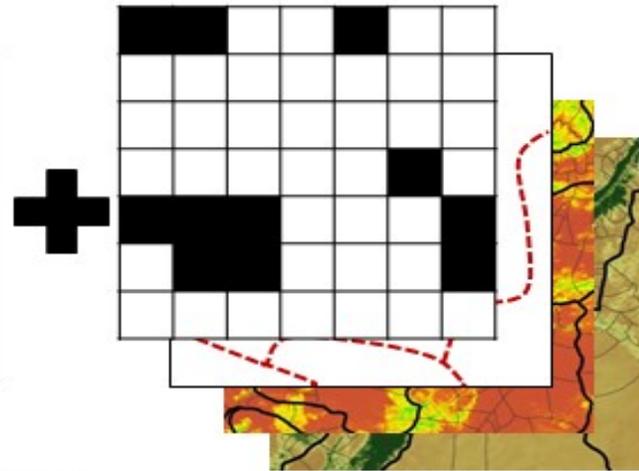
Top-Down and Bottom-Up Approach

a) Top down approach

Census population counts



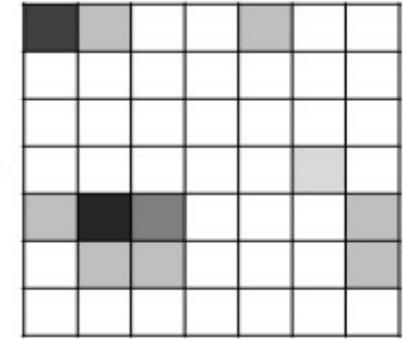
Geospatial covariates



Population disaggregation

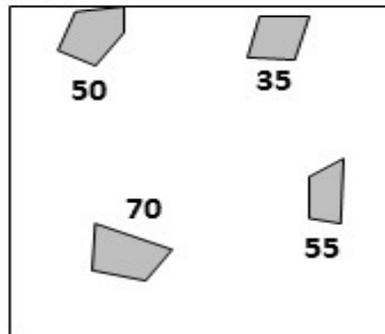
Spatial weighting layer created based on covariates, using dasymetric mapping

Gridded population

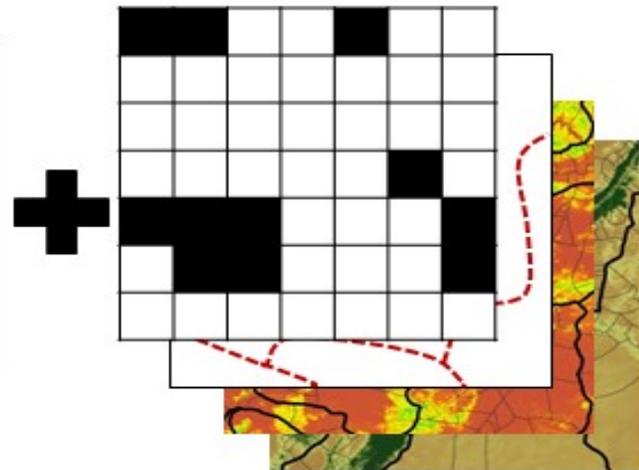


b) Bottom-up approach

Microcensus population counts



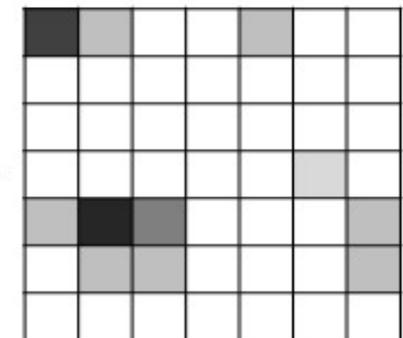
Geospatial covariates



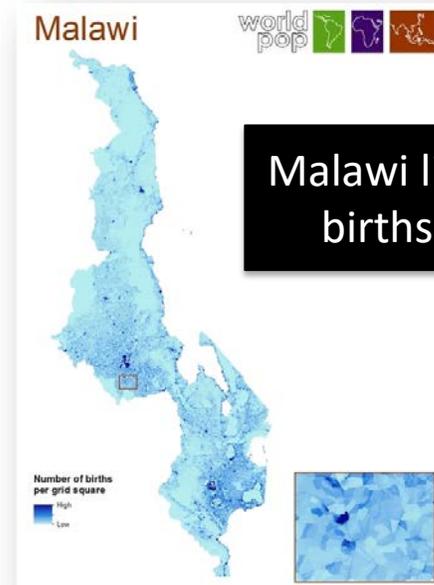
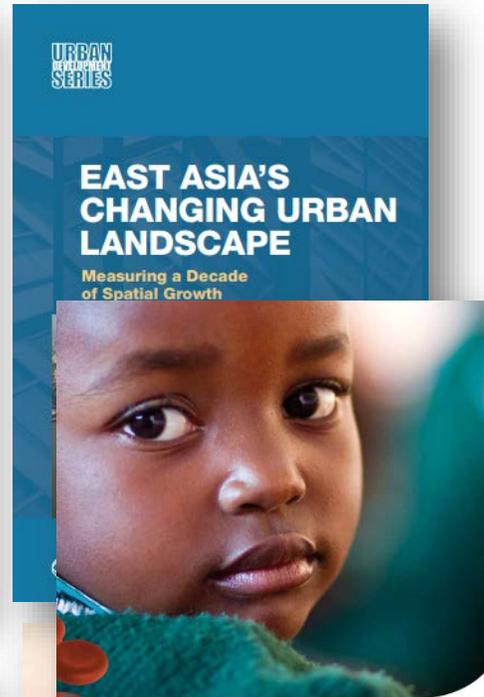
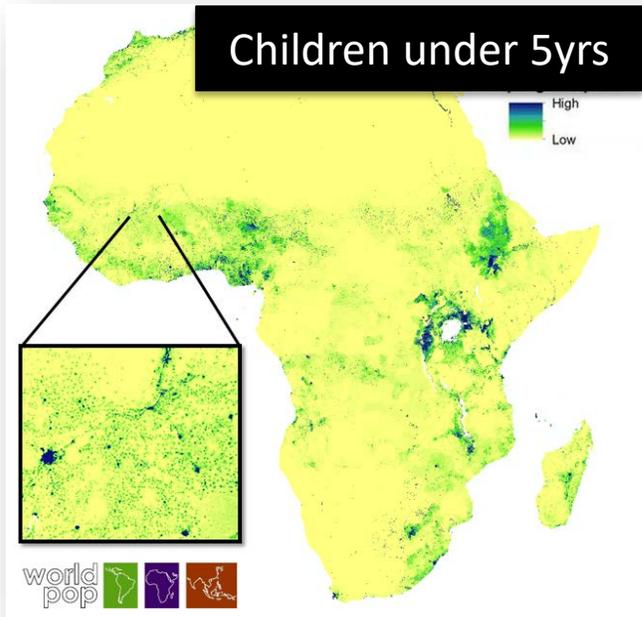
Population estimation

Prediction of population in unsurveyed areas based on covariates, using statistical modelling

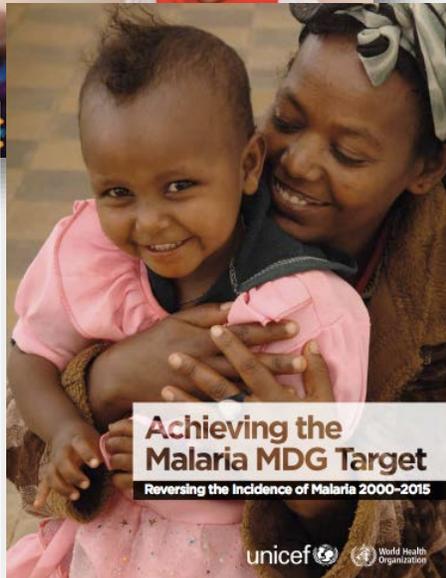
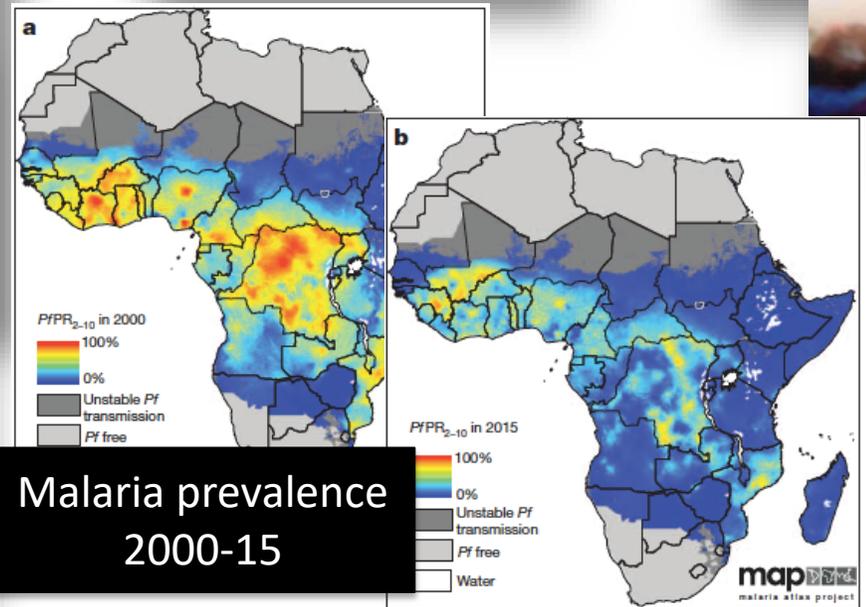
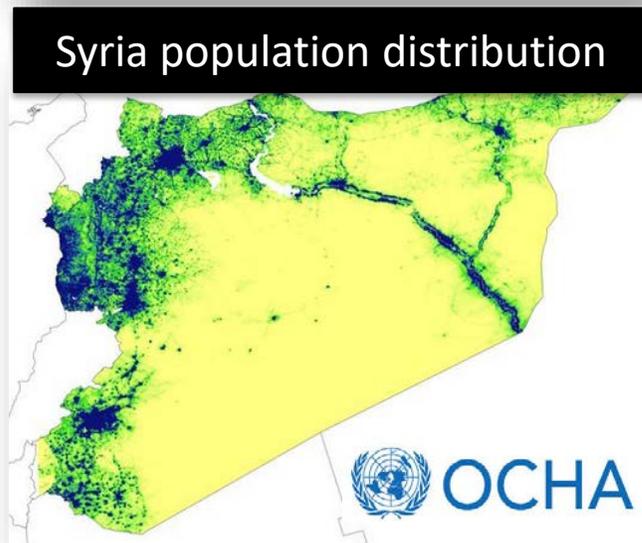
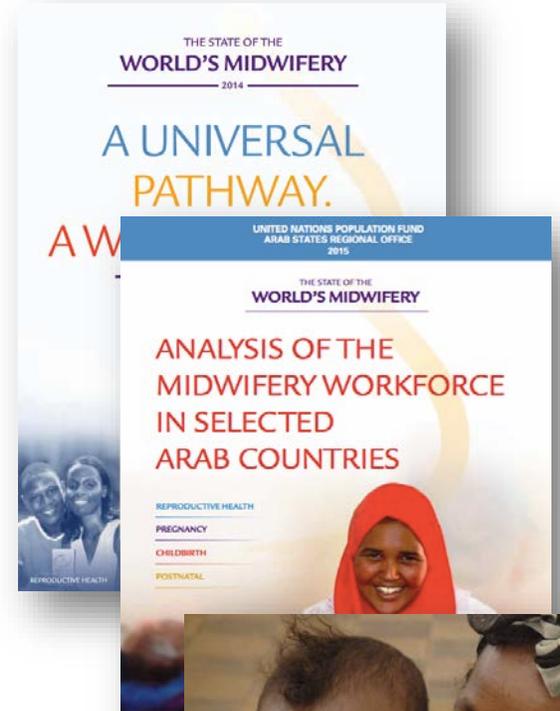
Gridded population



Datasets and Methods Already in Use



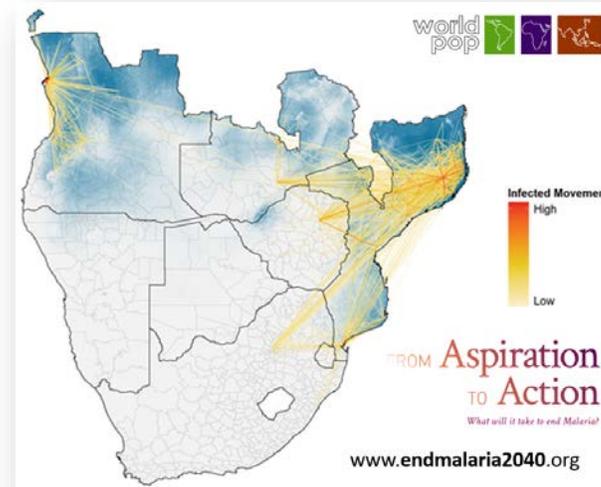
Malawi live births



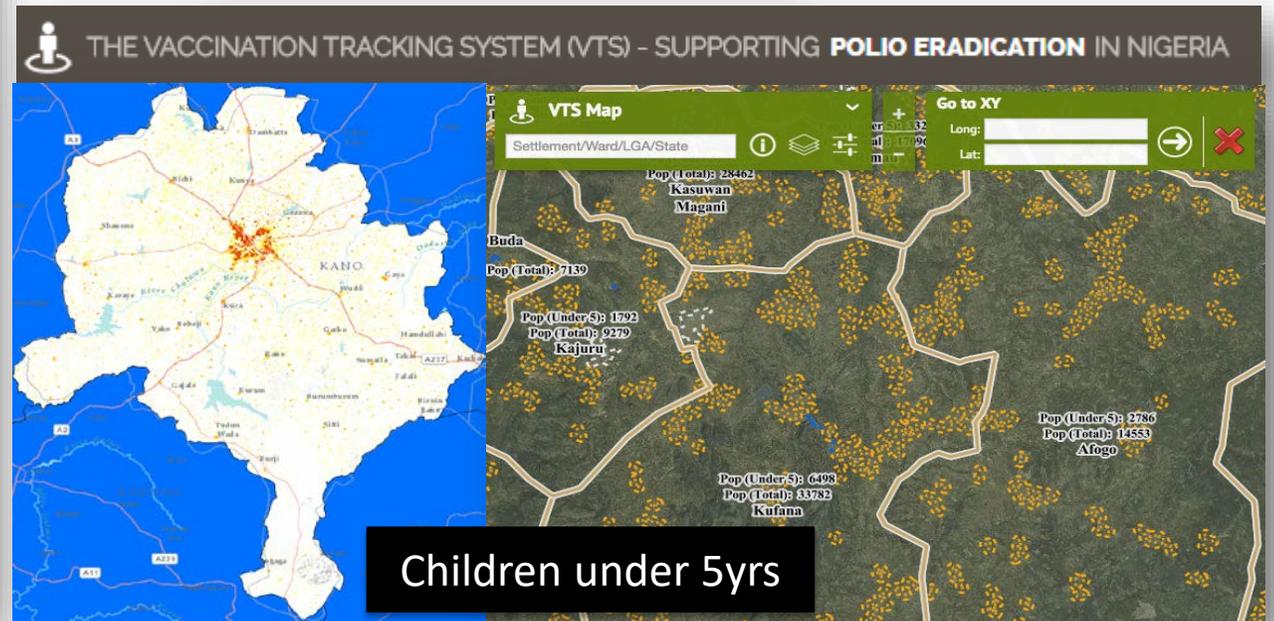
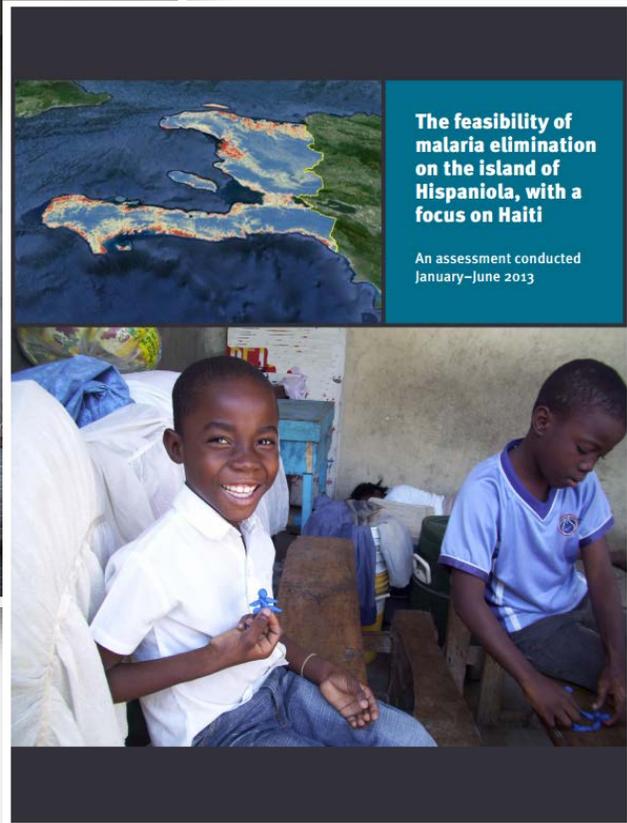
Datasets and Methods Already in Use



Disease elimination planning



Global eradication strategies



Children under 5yrs

Why You Should Join the Effort?

- Looking for testing additional covariates/datasets that can help to improve or population mapping efforts
- Help to provide better evidence base data to monitor targets, inform policies and interventions, and eventually benefit people

Thank You!



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 [@WorldPopProject](https://twitter.com/WorldPopProject)

 [@Flowminder](https://twitter.com/Flowminder)