

Understanding Population Projections

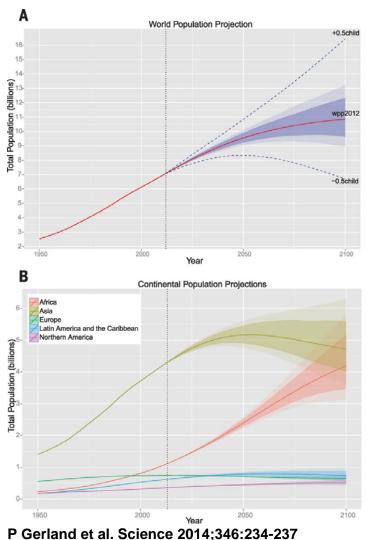
Assumptions Behind the Numbers

JASON BREMNER OF THE POPULATION REFERENCE BUREAU

Population

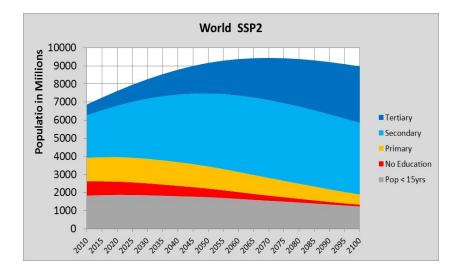
- Projections are critical at various scales to assess future demands for:
 - Resources food, water, energy
 - Services health, education
 - Economics jobs, productivity, infrastructure
- Demographers use their best tools to develop estimates of future population size and composition...

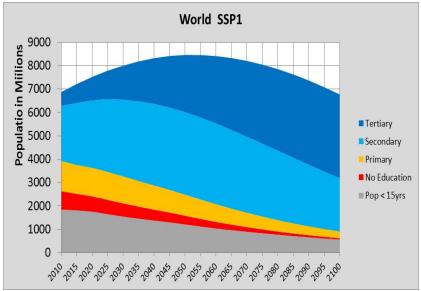
Fig. 1 World and continental population projections.(A) UN 2012 world population projection (solid red line), with 80% PI (dark shaded area), 95% PI (light shaded area), and the traditional UN high and low variants (dashed blue lines).

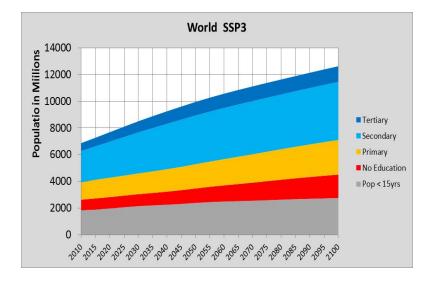






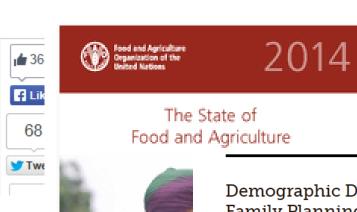






MOST USERS ARE NOT DEMOGRAPHERS

Projections used in diverse ways



RELEASE DATE: SEP 29, 2014

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al human population will stabilize around 9

Demographic Dividend Analysis Generates Support for Family Planning in Uganda



BY

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A UN study sparks fears Sep 24th 2014 | International



President Yoweri Museveni of Uganda (center) launches a new report on the demographic dividend, authored by the Uganda National Planning Authority with support from the Health Policy Project, at the National Family Planning Conference in Kampala on July 28. He is joined by Dr. Kisamba

Challenges for projection users

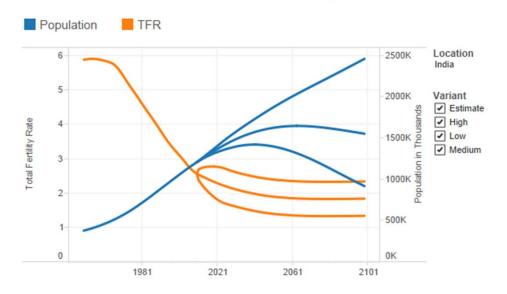
- Basic understanding of how different projections are developed and what differentiates high, low, medium.
- Understanding underlying assumptions
- Principle of uncertainty

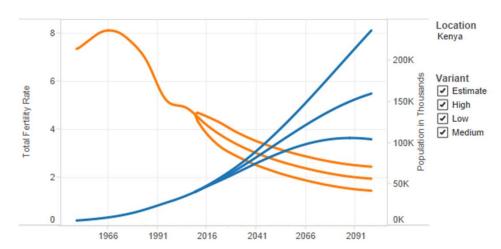
Improvement of projections is critical but so is improving understanding



As Fertility Changes, So Do Population Projections

Compare Countries Using the Graphs Below

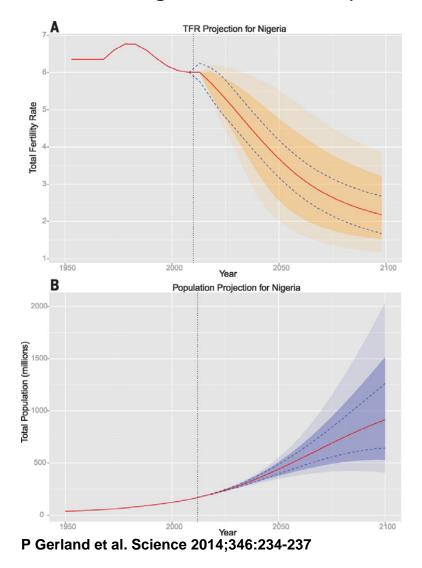




Source: United Nations Population Division, World Population Prospects: The 2012 Revision.

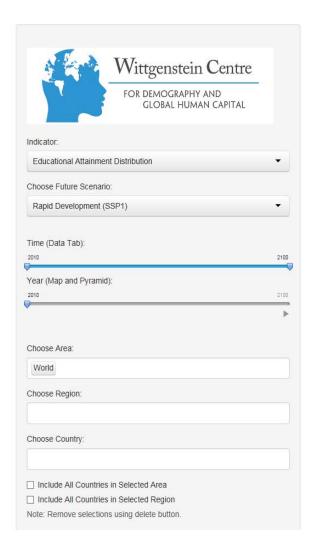


Fig. 2 TFR and population projections for Nigeria.UN 2012 projection of (A) TFR and (B) total population for Nigeria (solid red lines), with 80% PI (dark shaded areas), 95% PI (light shaded areas), and traditional UN high and low variants (dashed blue lines).



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Overview Data Map Education Graphs Scenario Definition Glossary FAQ

Wittgenstein Centre Data Explorer



The Wittgenstein Centre Data Explorer allows users to browse, select, visualize, and download the assumption and result data produced by the global population projection exercise to be released in Summer 2014 by Lutz, Butz, and K.C. (Eds). It also includes population projections developed for the 5th assessment report of the Intergovernmental Panel on Climate Change (IPCC) according to a set of Shared Socioeconomic Pathways (SSP) scenarios.

The new set of projections by levels of educational attainment was produced by a large team of researchers at the Wittgenstein Centre for Demography and Global Human Capital and at other institutions. There are two main areas where the new projections advance the state of the art beyond other existing global population projections (those that cover most world countries):

- They explicitly and systematically incorporates population heterogeneity by level of education, thereby illustrating how educational attainment can and should be routinely
 added to age and sex as a third demographic dimension.
- The assumptions about future trends in fertility, mortality, and migration include the scientific input of more than 500 population experts around the world who responded
 to an online questionnaire and assessed the validity of alternative arguments as well as the conclusions of intensive discussions at five meta-expert meetings.

Short Tutorial

When entering the database, the tabs at the top indicate different outputs:

- Data: The menu on the left is used for choosing the indicators (N=31), time or period (2010 to 2100), scenarios (N=7), age groups (5-year and broad age groups), area/region/countries, sex. and education categories for the data that will be displayed on the right.
- 2. Map: Shows the selected data on a map. Only one indicator can be shown at a time.
- 3. Profile: Shows two graphs and a detailed profile (PDF):
 - A population pyramid for the selected area/region/country including education categories (the user can choose between 4 or 6 categories). The play button under the
 year fader allows for the presentation of changing population pyramids over time.
 - A stack graph of population size by levels of education for the period 2010-2100 for the selected area/region/country. The period can be selected by scrolling the year fader.

A detailed profile of each country (with main projection results and assumptions) is available for download (in PDF format).

- 4. Assumptions: Shows the detailed assumptions related to fertility, mortality, migration, and education for the different scenarios after selecting the country or group of
- 5. Glossary: Shows the definition of the indicator selected in the left menu.
- 6. FAQ: Answers the frequently asked questions.

The data, maps, pyramids, and charts displayed can be downloaded by clicking the appropriate button at the bottom of the left menu.

Citation

The suggested citation for data from this website is:

Wittgenstein Centre for Demography and Global Human Capital, (2014). Wittgenstein Centre Data Explorer Version 1.1. Available at: www.wittgensteincentre.org/dataexplorer

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How do we improve understanding and effective use?

Communicate better ourselves

- Basic graphics for users with explanations
- Allow users to see and visualize all assumptions for every country

Click on the image below to launch the interactive infographic:

