

### Introduction to the WIC Data Explorer

Jakob Eder – WIC Summer School 2016









# Agenda

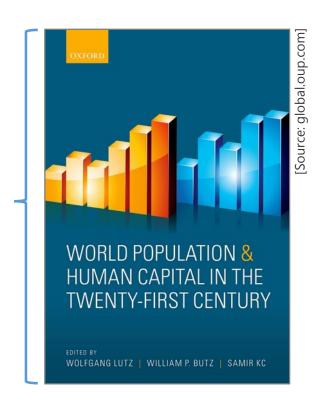


- Introduction to the WIC Data Explorer
- Demo and hands on
- Using data from the Explorer for graphs in MS Excel or maps in QGIS
- Topics for student's presentations on Wednesday, 15.06.2016





- Making WIC data publicly available
  - Free and easy access
  - Provide data, maps, and education graphs
  - Additional and updated information to <u>Lutz et al. 2014</u>
- Increase outreach
- Target group
  - Researchers
  - Other experts
  - Not so much the general public



### People Involved and Contact Info



- Concept and Coordination
  - Anne Goujon, Ramon Bauer, Jakob Eder
- Data
  - Samir K.C.
- Web Interface
  - Guy Abel
  - Built with R Shiny
  - Code on GitHub
- General Inquiries
  - data@wittgensteincentre.org









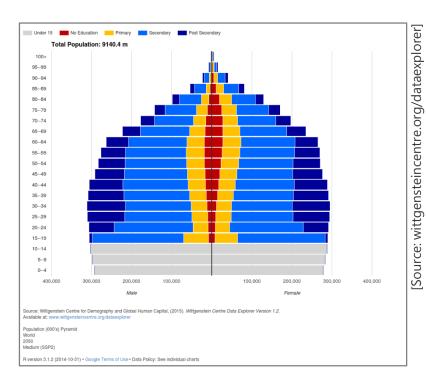


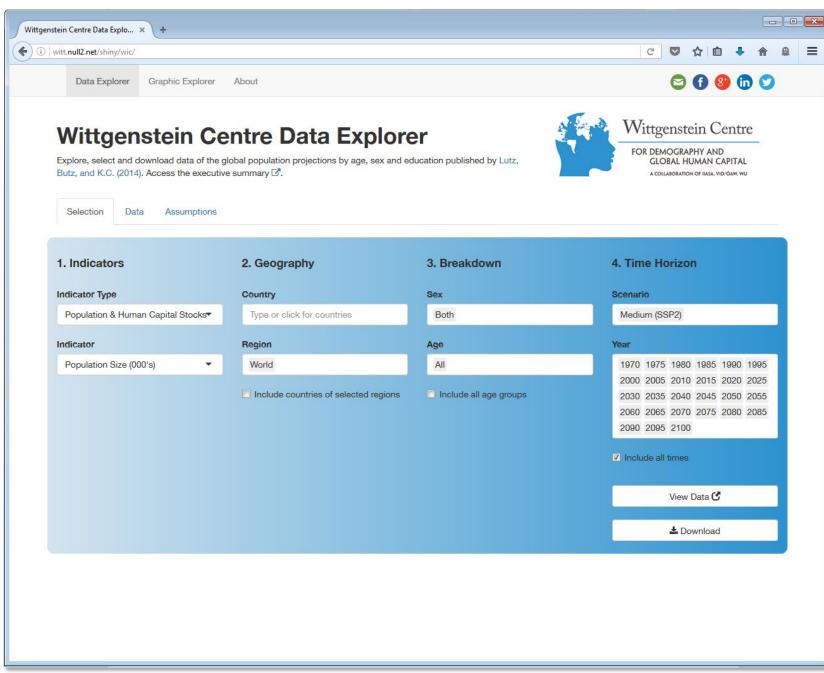


### **Features**



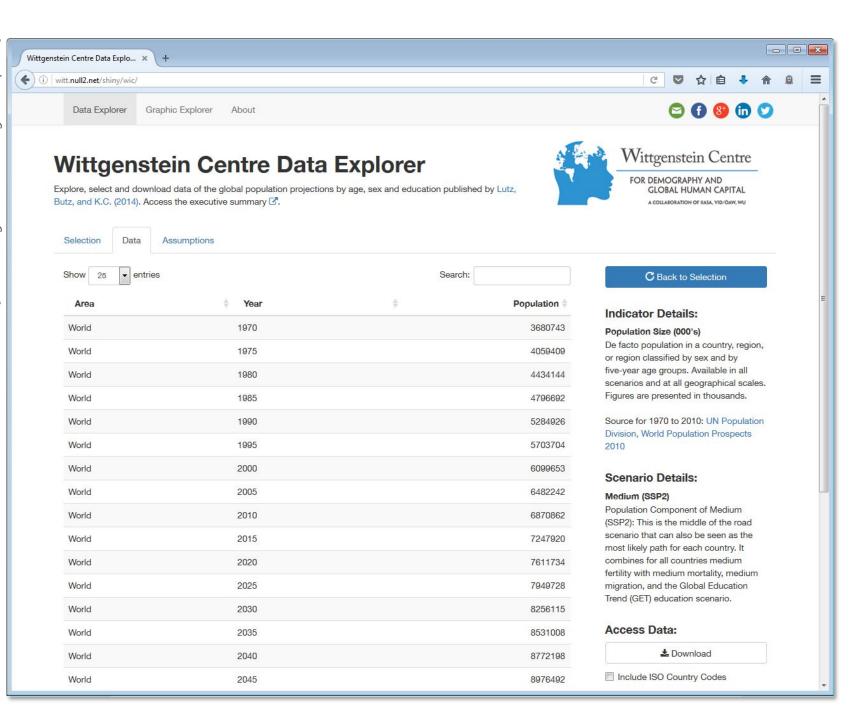
- Data Explorer
  - 31 Indicators (Population & Human Capital Stocks, Demographic Changes, New Aging Indicators)
  - 7 Scenarios
  - (1970) 2010 to 2100
  - World, major regions, 171 countries
- Graphic Explorer
  - Population pyramids by education
  - Population development charts by education
  - Maps
  - Country profiles





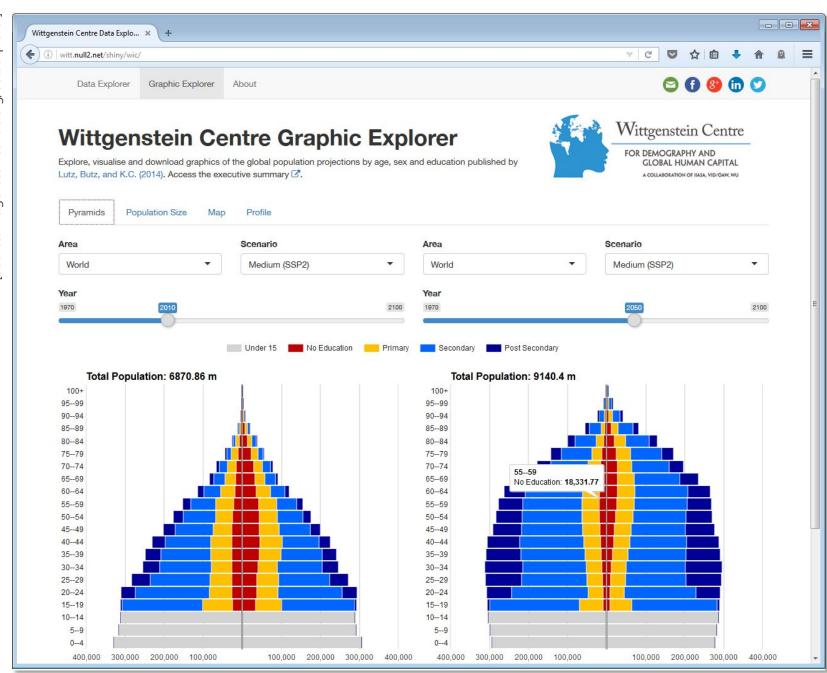


### **Entry Page**





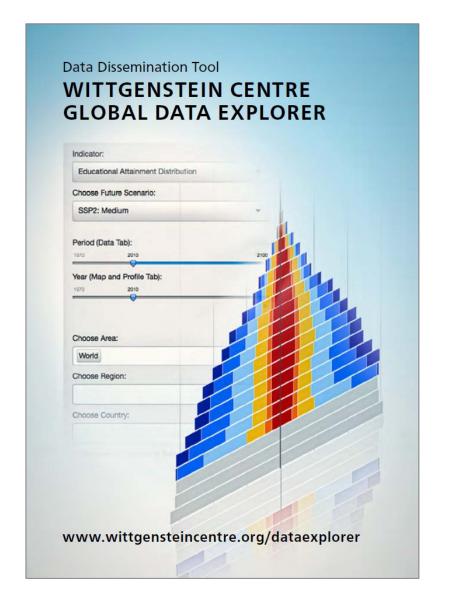
### **Data View**





# Graphical View

### **Postcards**



### WITTGENSTEIN CENTRE GLOBAL DATA EXPLORER

The data dissemination tool of the Wittgenstein Centre for Demography and Global Human Capital

Browse, select, visualize and download the new dataset of population projections by age, sex, and educational attainment for 195 countries over the period 1970–2100, including:

First global population projections of educational attainment by age and sex

Based on expert assumptions on future trends in fertility, mortality, migration and education

#### → www.wittgensteincentre.org/dataexplorer

For more information on data, assumptions and analysis, see: World Population and Human Capital in the Twenty-First Century. Edited by Wolfgang Lutz, William P. Butz, and Samir KC. Published by Oxford University Press (Summer 2014).



The Wittgenstein Centre for Demography and Global Human Capital is a collaboration among the World Population Program of the International Institute for Applied Systems Analysis

(IIASA), the Vienna Institute of Demography of the Austrian Academy of Sciences (VID/ÖAW), the Demography Group and the Research Institute on Human Capital and Development of the Vienna University of Economics and Business (WU)



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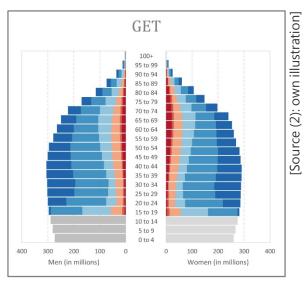
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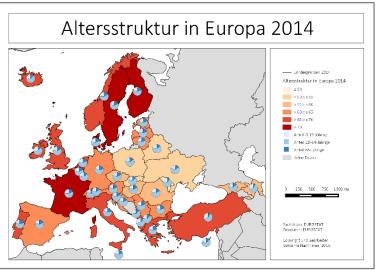
### Using Data in MS Excel or QGIS



- Either: Producing graphs in MS Excel
  - Multi-state population pyramids
  - Index-diagrams

- Or: Producing maps in QGIS
  - Global or regional scale





### Student's Presentations



- Short presentations (~5 minutes) + discussion (~5 minutes) on Wednesday, 15.06.2016
- Should include data from the WIC Data Explorer
- Topics
  - Can be chosen freely or follow our suggestions
  - We would like to learn from your expertise! Relating to your own research or interesting demographic facts from your home country is most welcome
- Presenting alone or in groups of 2 to 3 people
- Presentation style
  - Pecha Kucha *light* (10 slides, 30 seconds per slide)

### Pecha Kucha Presentations



- Pecha Kucha: Japanese for chit-chat
- Keeps presentations fast-paced, concise, and makes sure every speaker stays within the time limit
- Originally 20 slides and 20 seconds per slide, we adjust this to 10 slides and 30 seconds per slide
- Set your timer in PowerPoint to 30 seconds per slide
  - Make sure what you want to say about your topic
  - Make sure that you don't need more than 30 seconds per slide
  - Practice!

### **Suggested Topics - Fertility**



- Fertility
  - Fertility and Education: The fertility of differently educated women
  - Fertility in Africa: Outliers and cross-country comparison
  - Expected drivers of fertility decline in higher fertility countries: The role of increasing education level.
  - When will higher-fertility countries experience fertility declines towards replacement level?
  - Comparisons of fertility scenarios in WIC explorer and probabilistic projections in UN World Population Prospects 2015: An exploration.

### **Suggested Topics - Mortality**



- Mortality
  - Country- and regional-specific differences in levels and trends of life expectancy

## Suggested Topics - Ageing



- Mortality
  - New Measures of Ageing: Old-age Dependency Ratio vs. Prospective Old-age Dependency Ratio
  - New Measures of Ageing: Share of Population 65+ vs. Share of people with remaining life expectance below 15 years

## Suggested Topics - Human Capital



- Human Capital
  - Education in Population Projections: Comparing different SSP-Scenarios
  - Demographic Momentum: Examples of clearly visible education inertia/momentum
  - Mean Years of Schooling vs. Educational Attainment: Comparing populations with similar Mean Years of Schooling, but very different attainment profiles





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