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science for global insight

Dimensions of population projections

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Adapting demographic models

- ▶ With the help of multidimensional population models:
Include granularity, i.e.
 - ▶ Human capital: Educational attainment
 - ▶ Urban & rural divide
 - ▶ Religion and religiosity

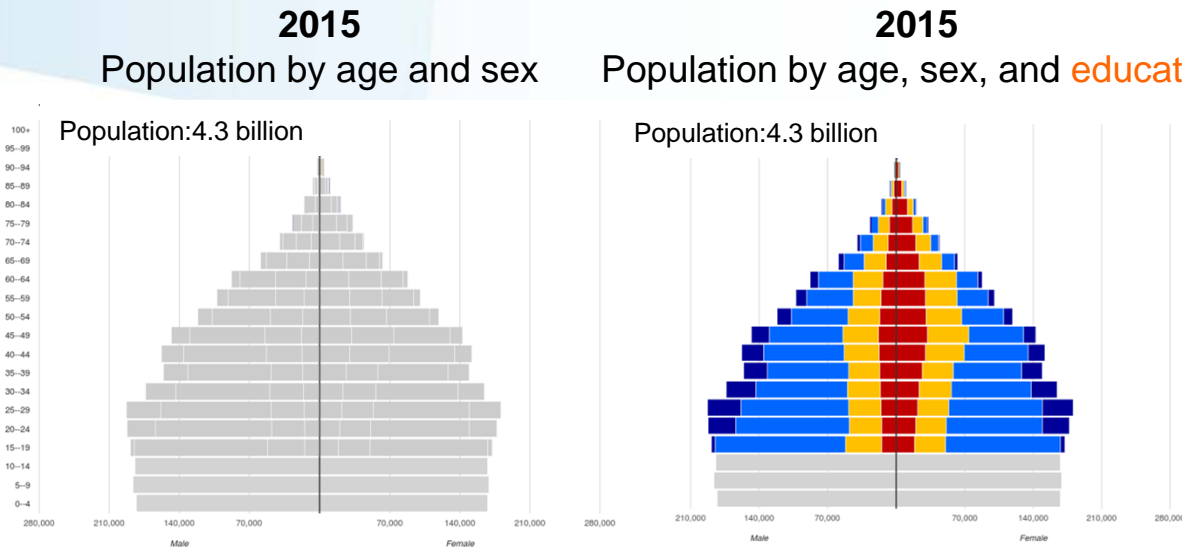
Education: A proxy for human capital

Education (stock) answers the three main criteria of why to explicitly consider a particular dimension in population projections

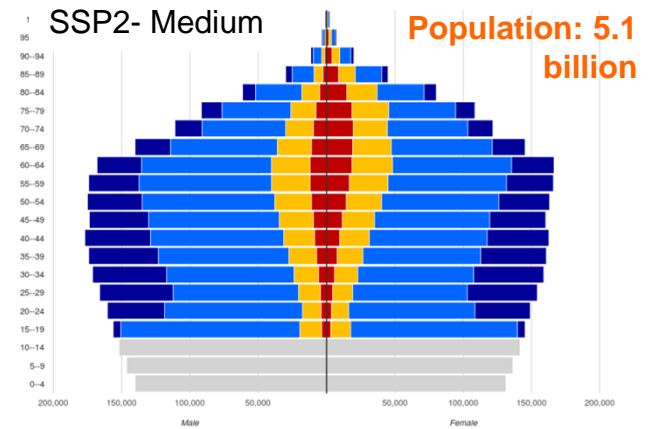
- It is interesting as such and is a desirable explicit output parameter;
- It is a source of demographic heterogeneity and has an impact on the dynamic of the system;
- It is feasible to consider the dimension explicitly.

Education: A glimpse at human capital

The example of Asia

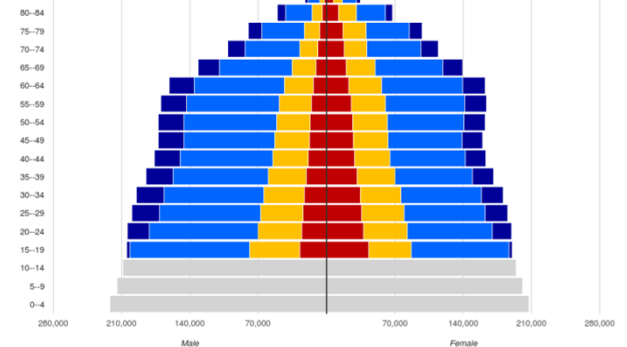


2050
Population by age, sex, and education



SSP3- Stalled dev.

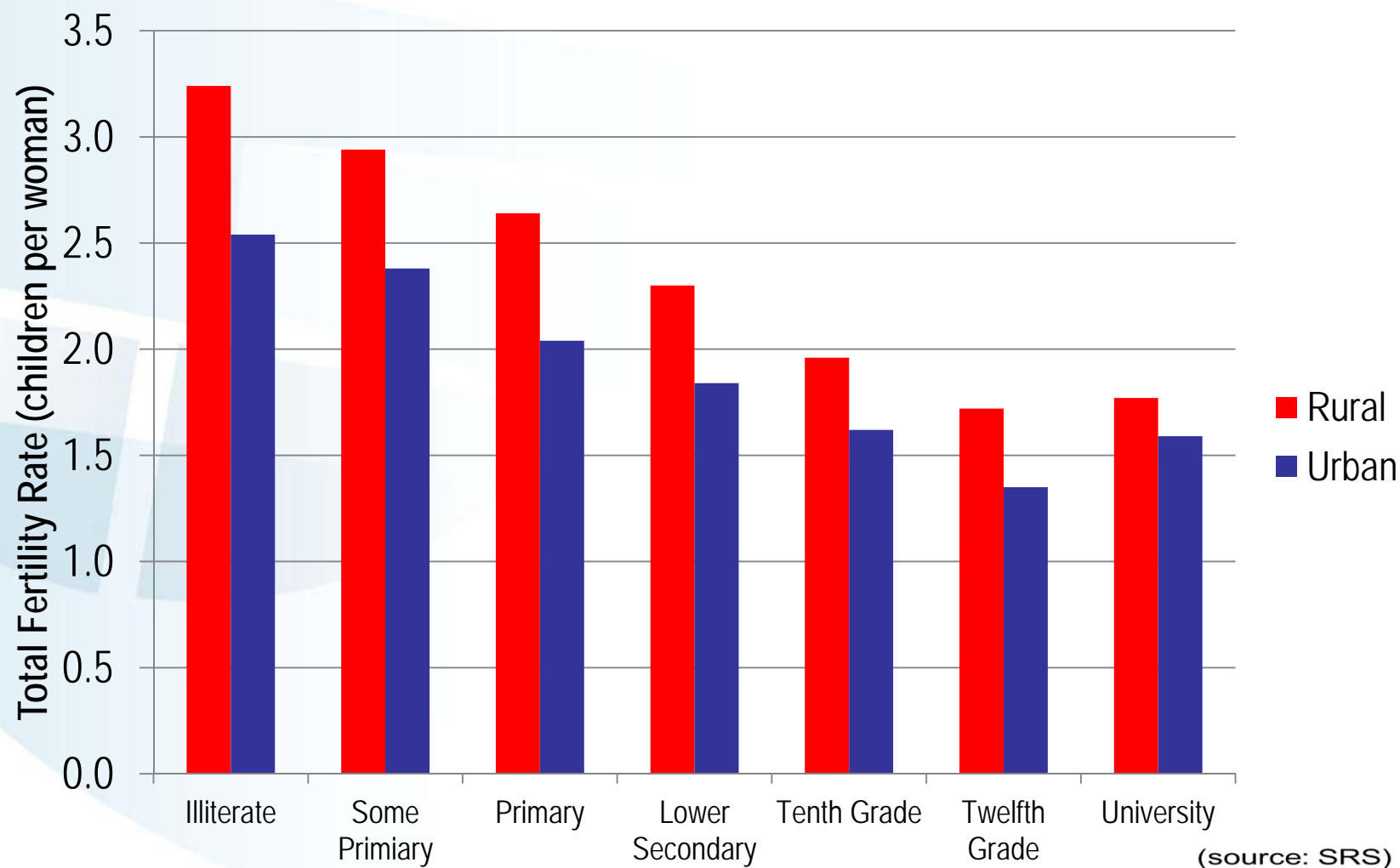
Population: 5.7 billion



Concept: Population Dimensions

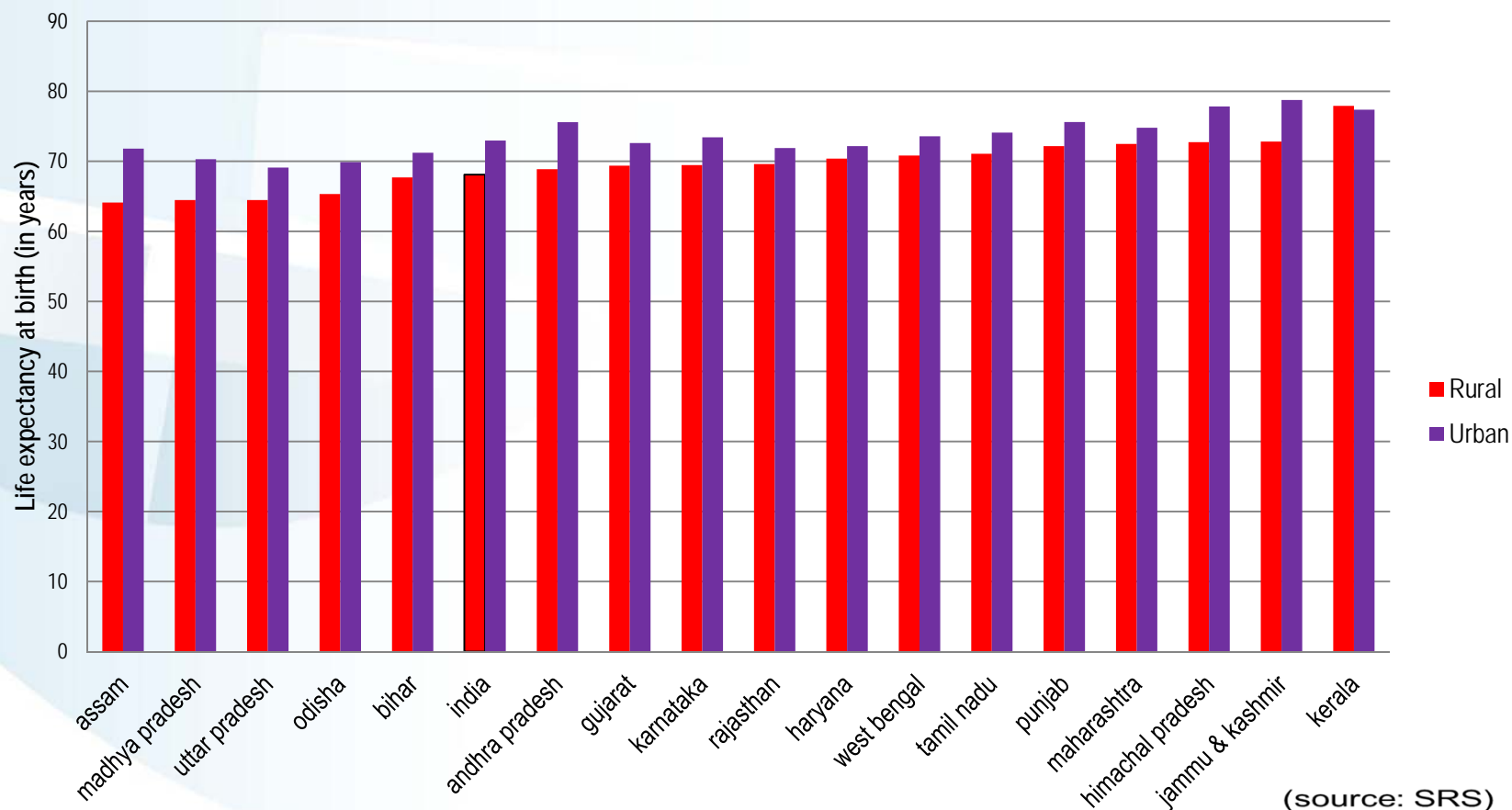
	Fertility	Mortality	Migration (ext)	Education transition	Migration (int)	Migration (sub)
Country	•	•	•	•	•	•
Age	•	•	•	•	•	•
Sex	•	•	•	•	•	•
Education	•	•	•	•	•	•
Rural/urban	•	•	?	•	•	•
Subnational	•	•	?	•	•	•

Total Fertility Rate in India, by education and place of residence



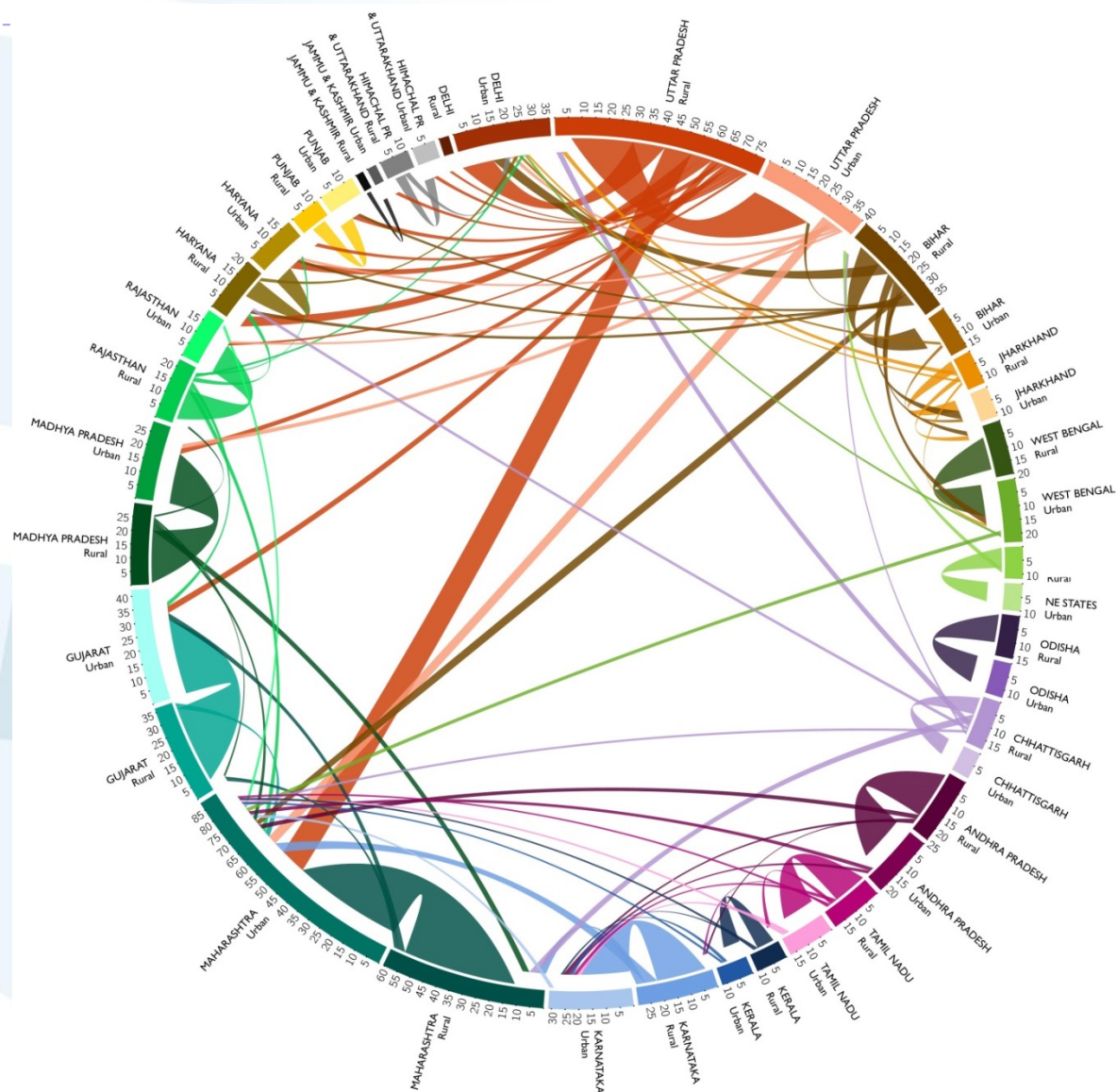
Concept: Mortality

Life expectancy at birth for females
States of India, 2013

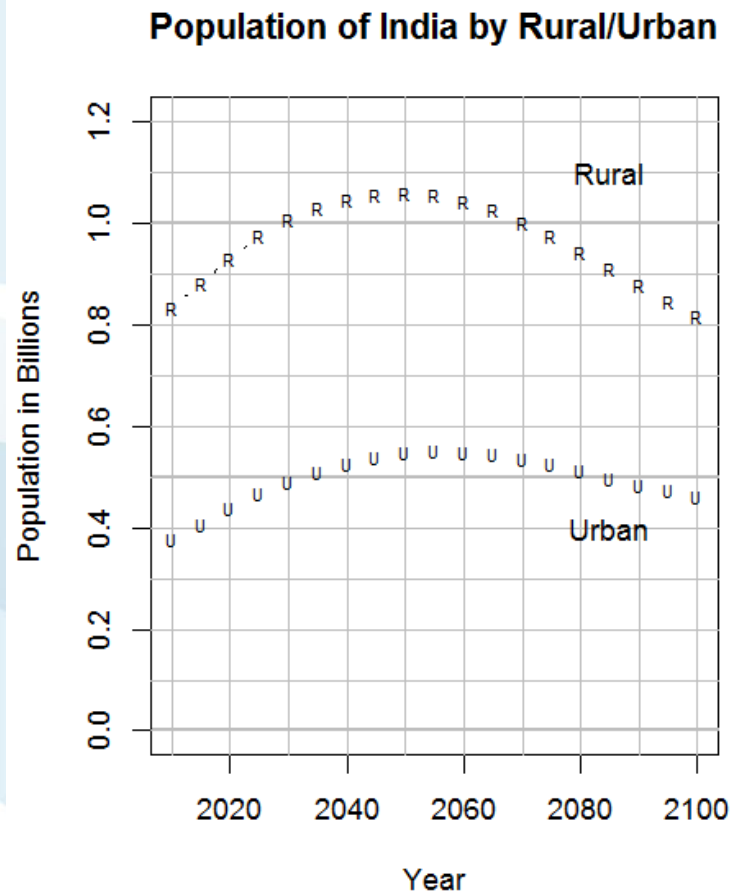


(source: SRS)

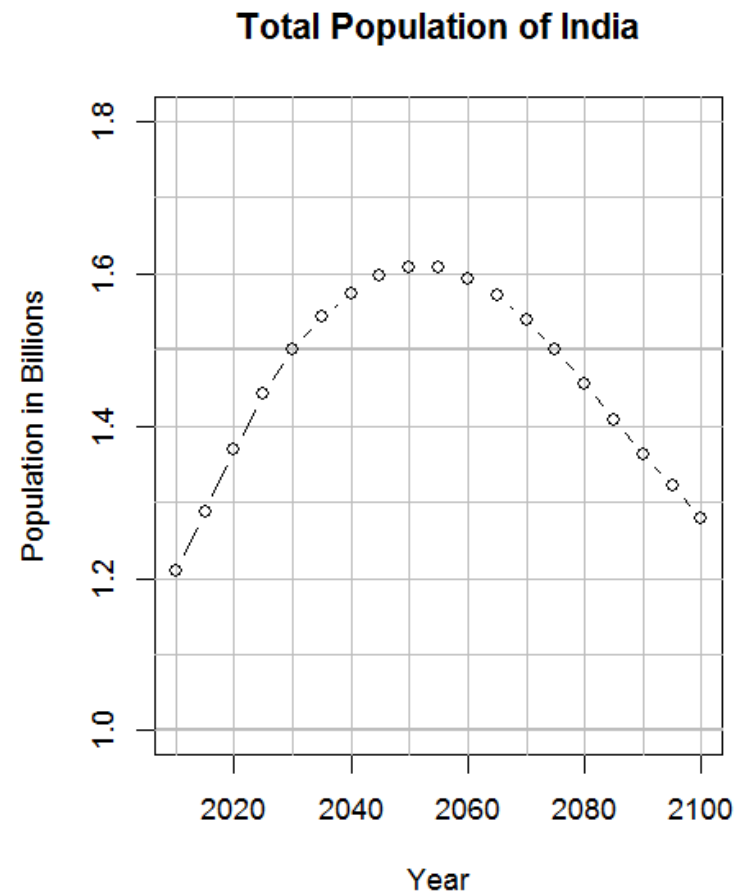
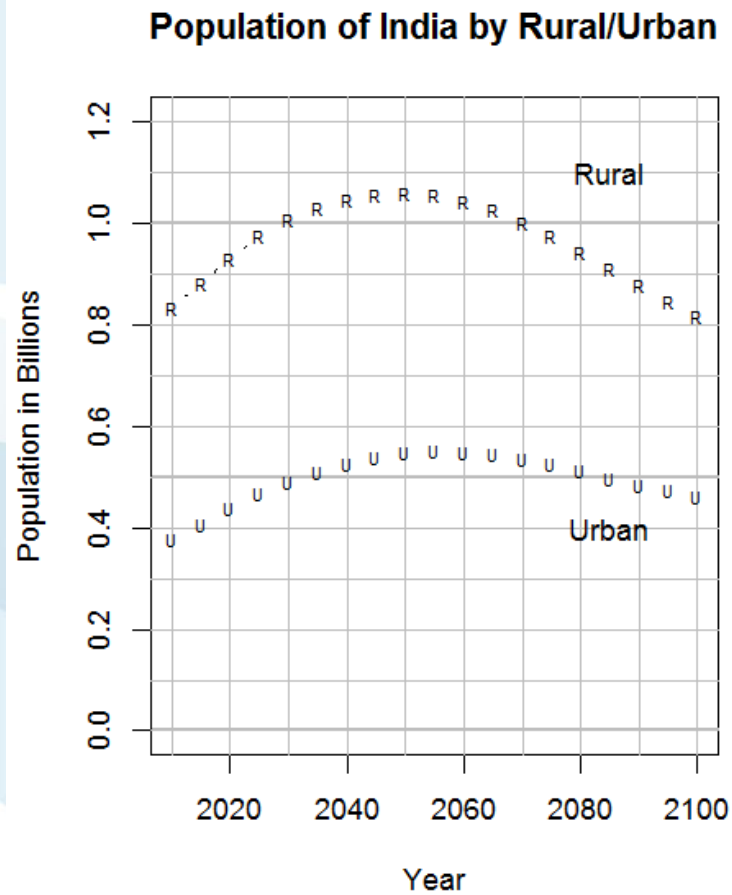
Concept: Internal Migration



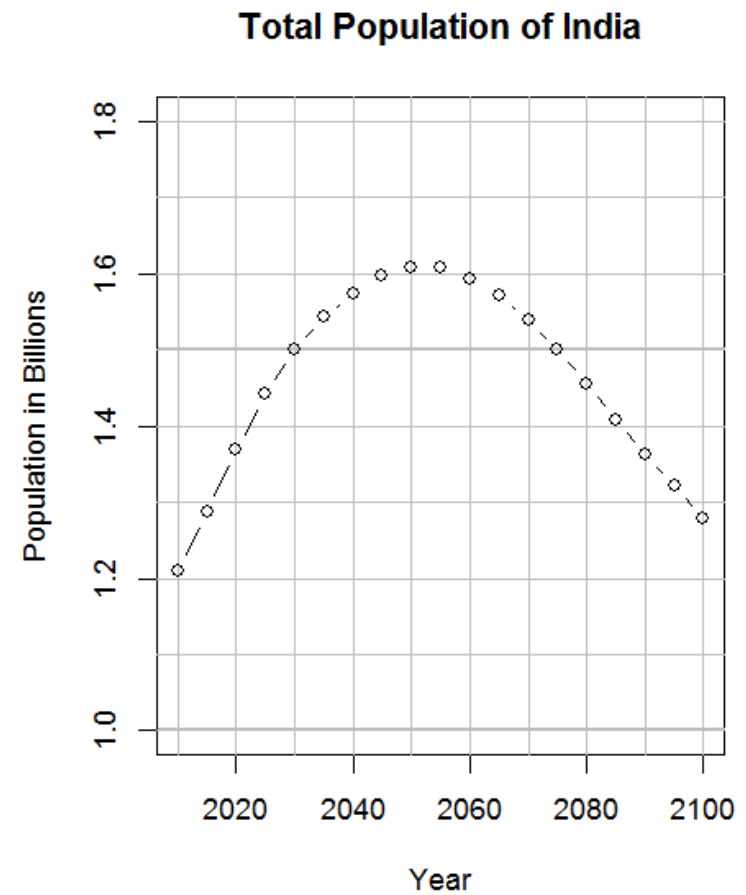
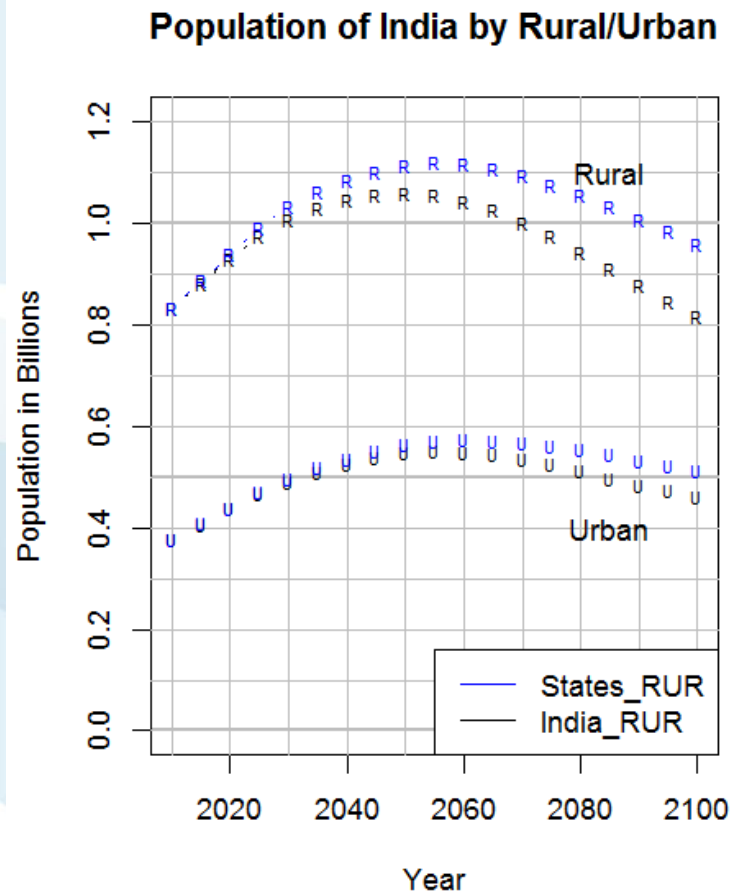
Methodology: Preliminary Results



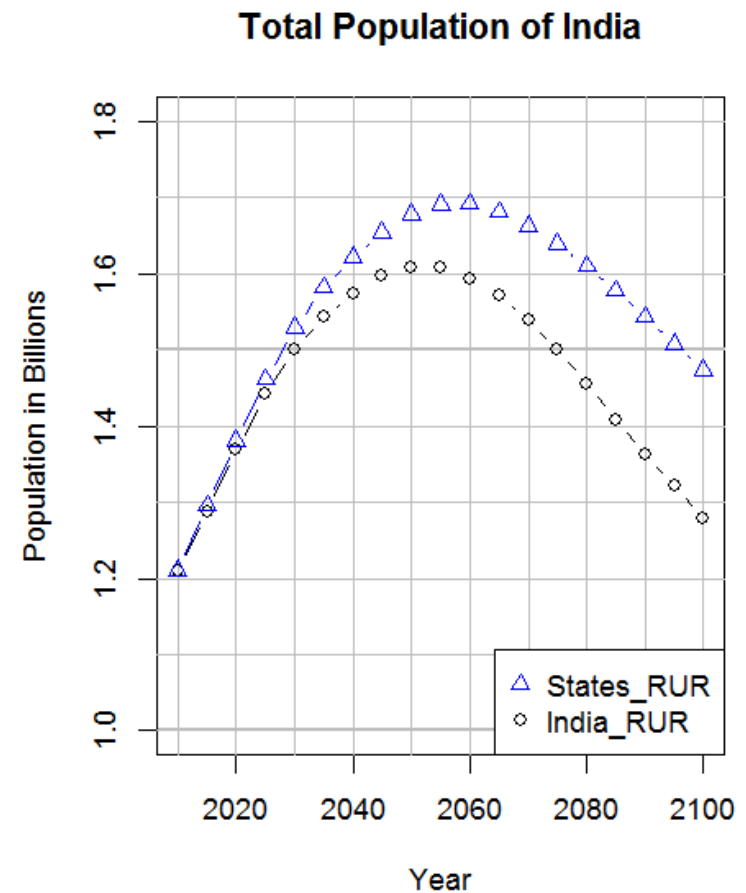
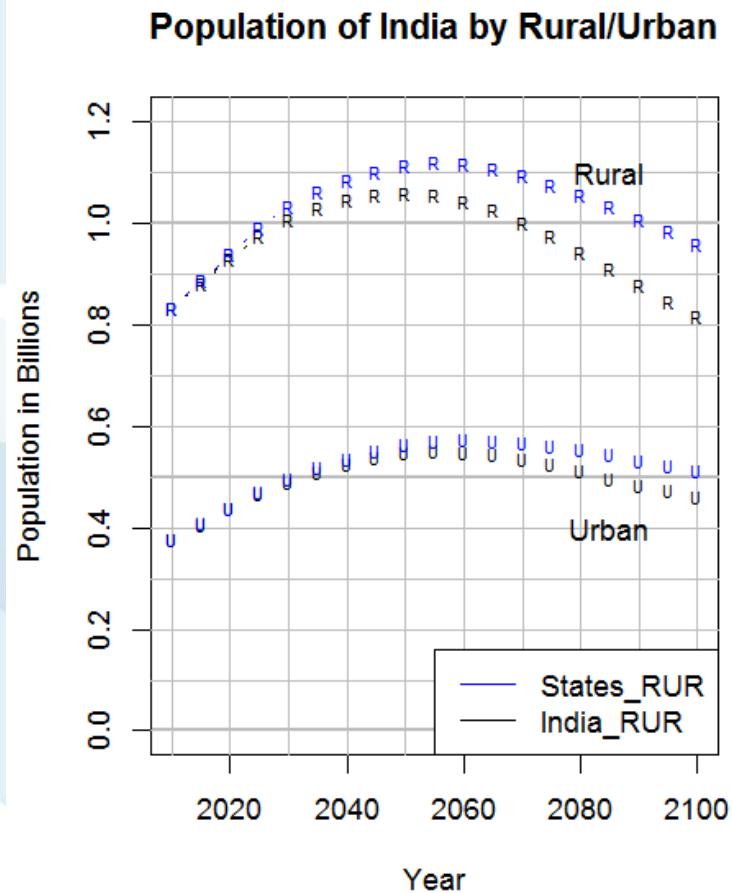
Methodology: Preliminary Results



Methodology: Preliminary Results



Methodology: Preliminary Results



Future religion and religiosity prospects

Will religion be the measure of humanity in the 21st century?

André Malraux: *“The 21st century will be religious or it will not be”* (1976)

Source: Kaufmann, Skirbekk, Goujon. 2010. Secularism, fundamentalism, or Catholicism? The religious composition of the United States to 2043. *Journal for the Scientific Study of Religion*, Volume 49(2): pp. 293-310.



Population projection of the U.S., by religion, religiosity, and ethnicity, 2003-2043, medium scenario

