

The Demography of Education and Human Capital Formation in Africa, 1970-2070

Wolfgang Lutz

Yidan Prize Conference, Dakar



Wittgenstein Centre

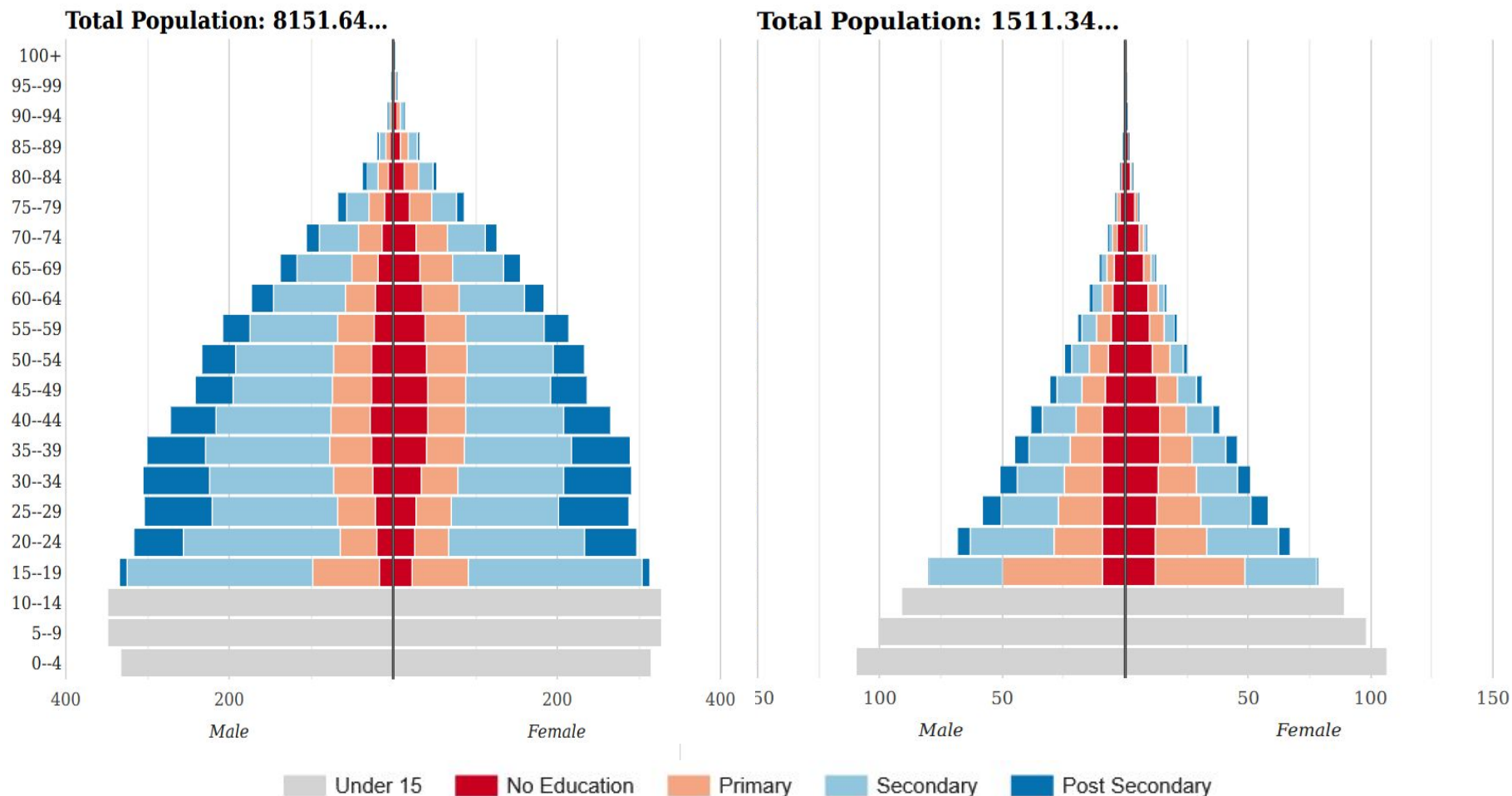
FOR DEMOGRAPHY AND
GLOBAL HUMAN CAPITAL



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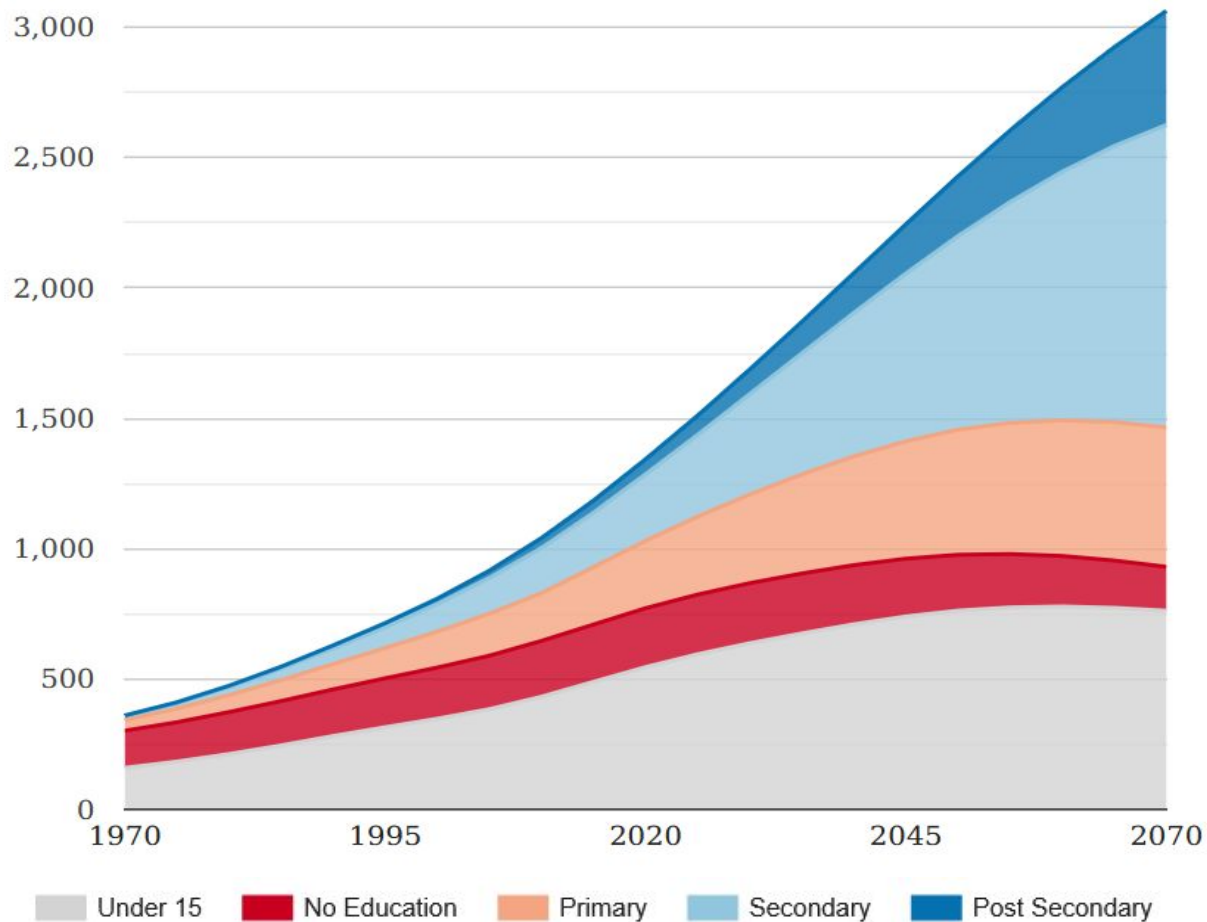
2025: The World and Africa

by age, gender and level of education

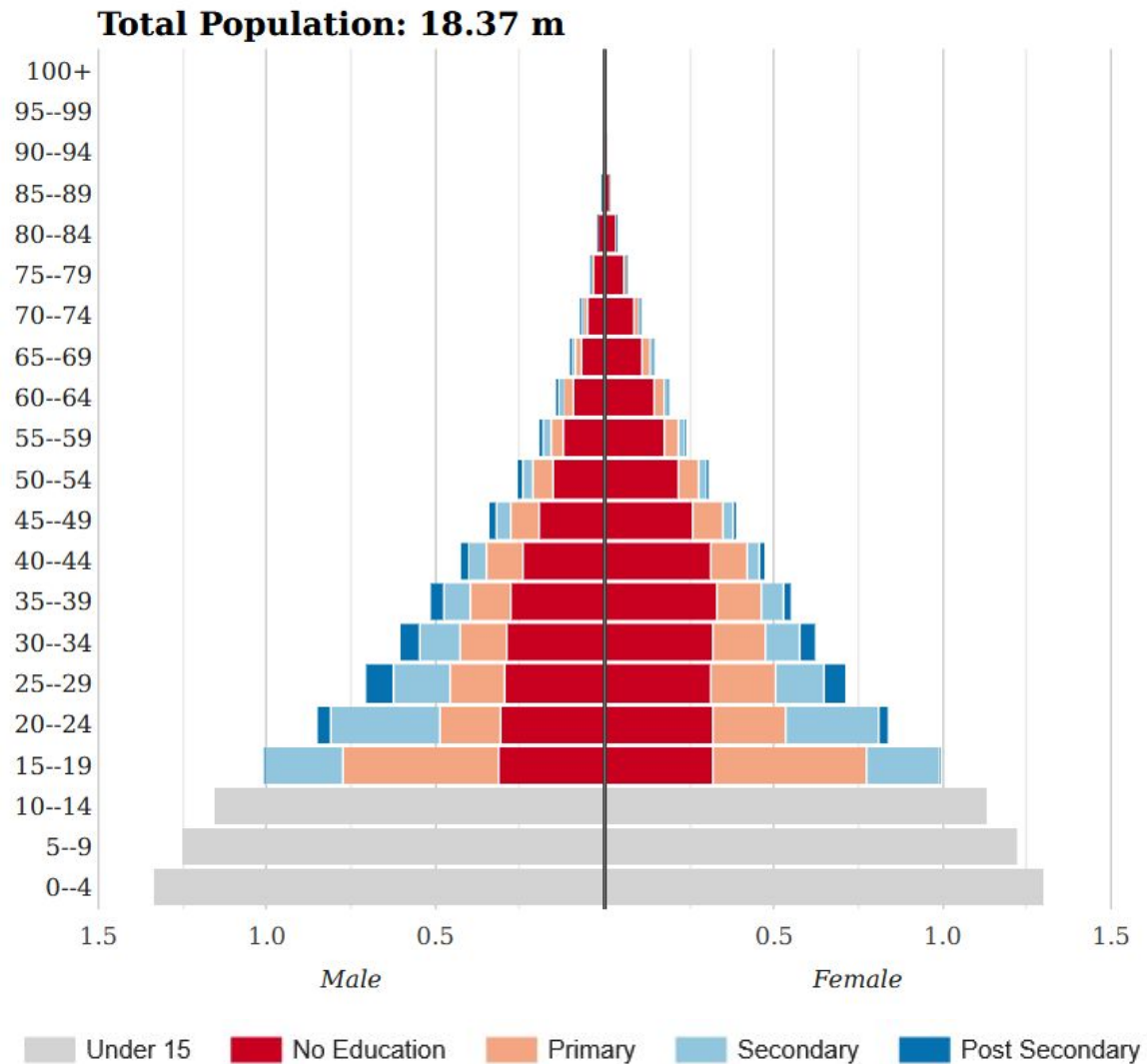


Africa's Population

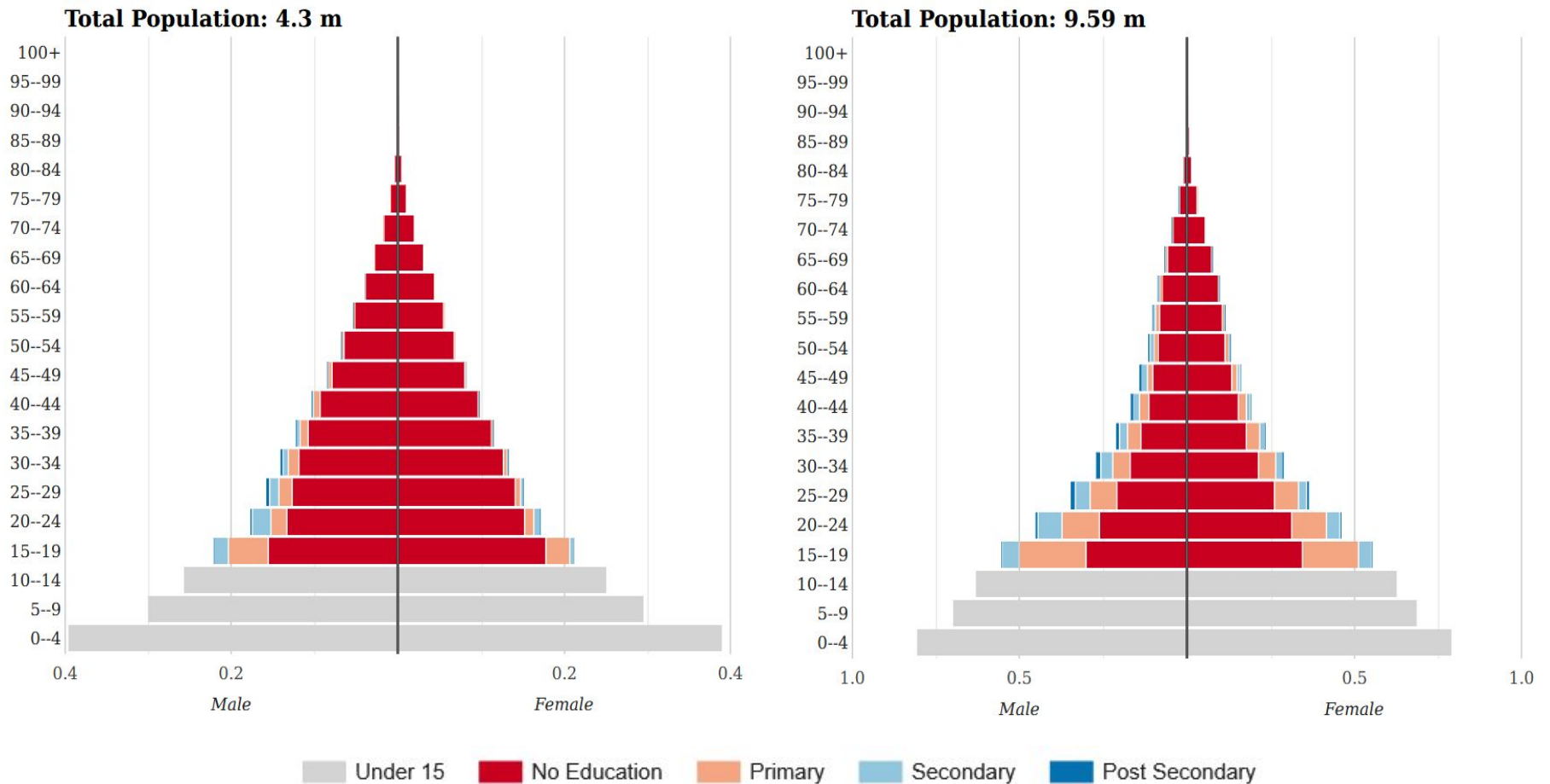
by level of education 1970-2070



Senegal 2025



Senegal 1970 and 2000



Senegal 2070

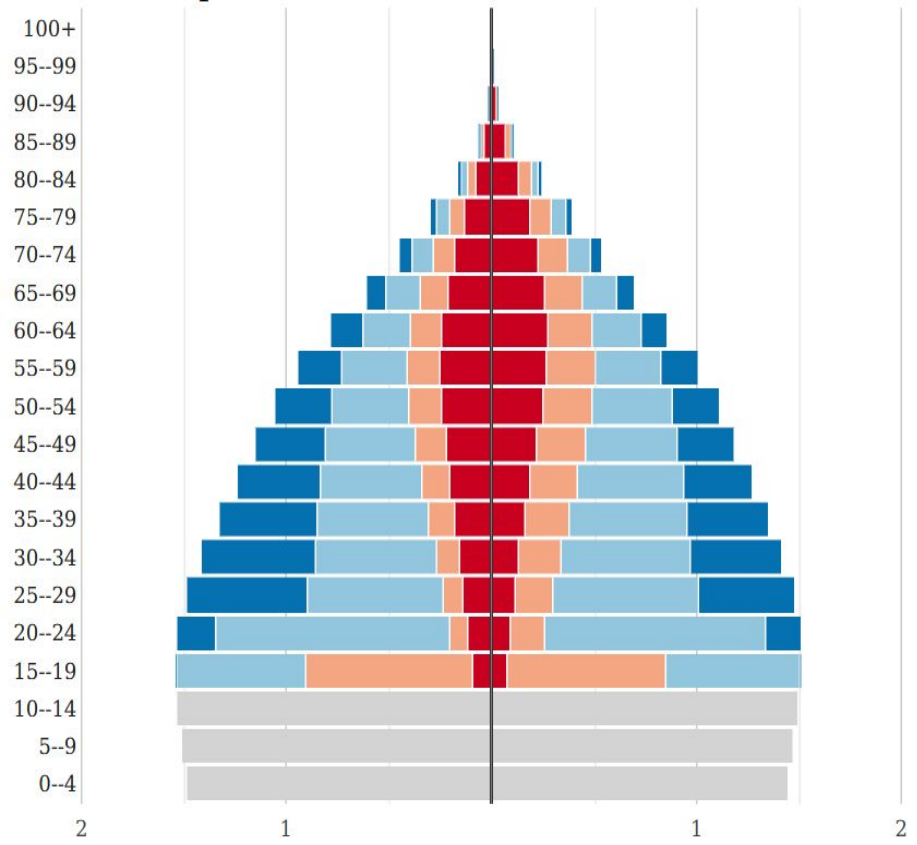
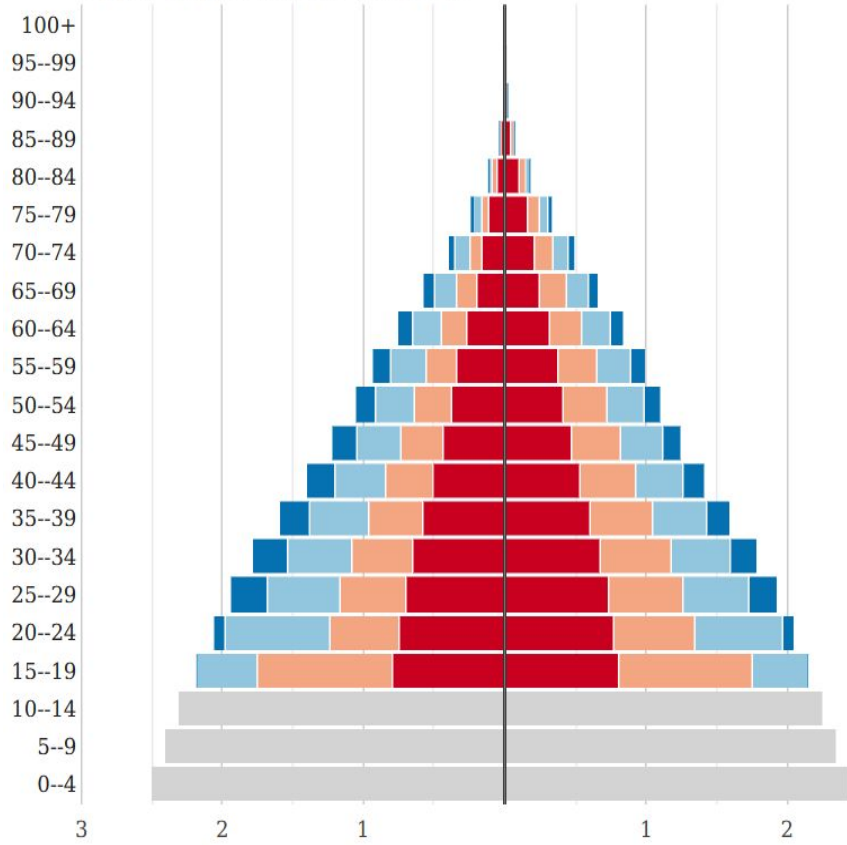
two alternative scenarios

Stalled Development

Further Progress

Total Population: 47.45 m

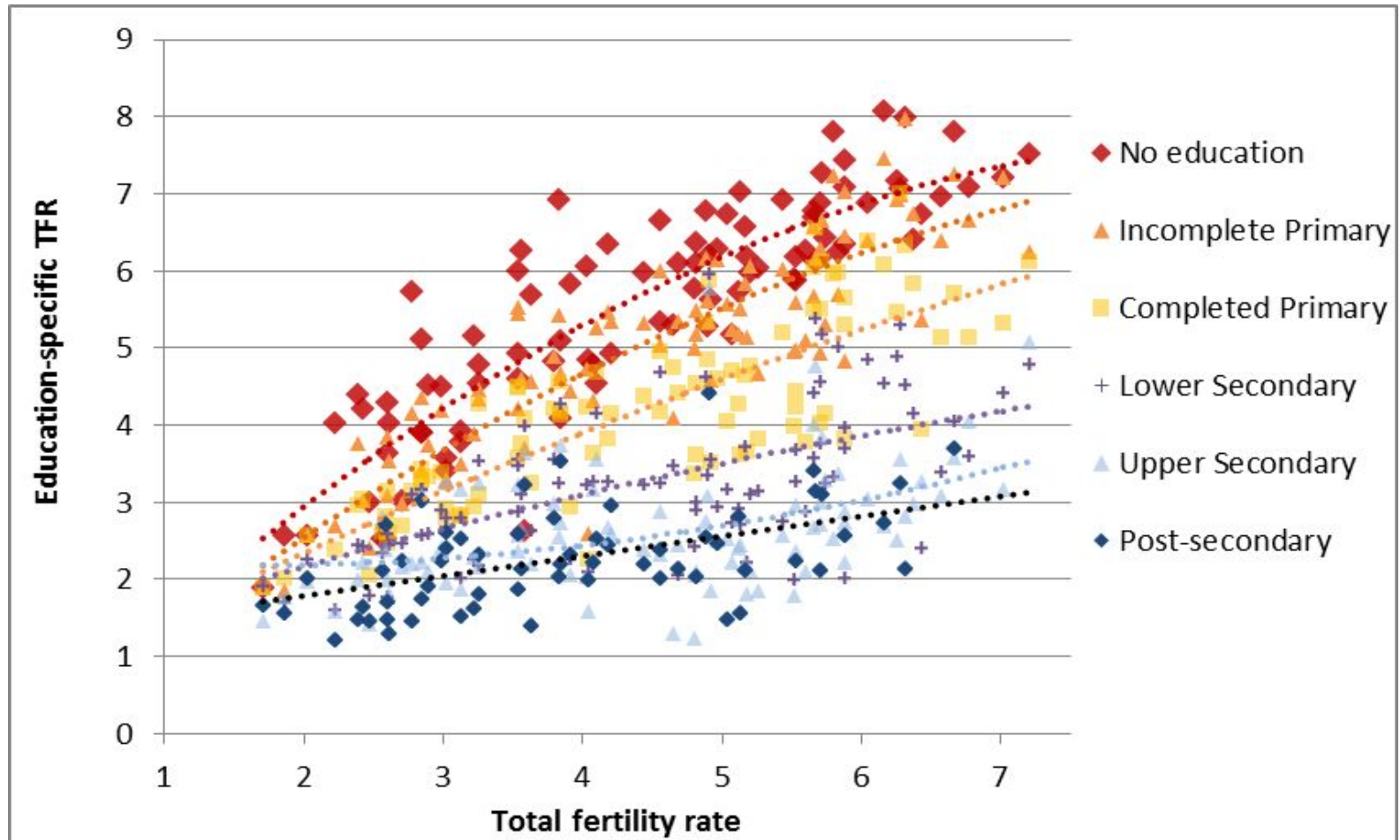
Total Population: 37.74 m



Under 15 No Education Primary Secondary Post Secondary

Female Education is the Key Driver of Declines in Infant Mortality and Fertility

Education specific period TFR in 58 DHS countries
(multiple time points)



ECONOMICS

The Demography of Educational Attainment and Economic Growth

(all in SD)

Complementing primary education with secondary education in broad segments of the population is likely to give a strong boost to economic growth.

Wolfgang Lutz,^{1*} Jesus Crespo Cuaresma,² Warren Sanderson³

2000: Millennium Development Goals:
Universal primary education

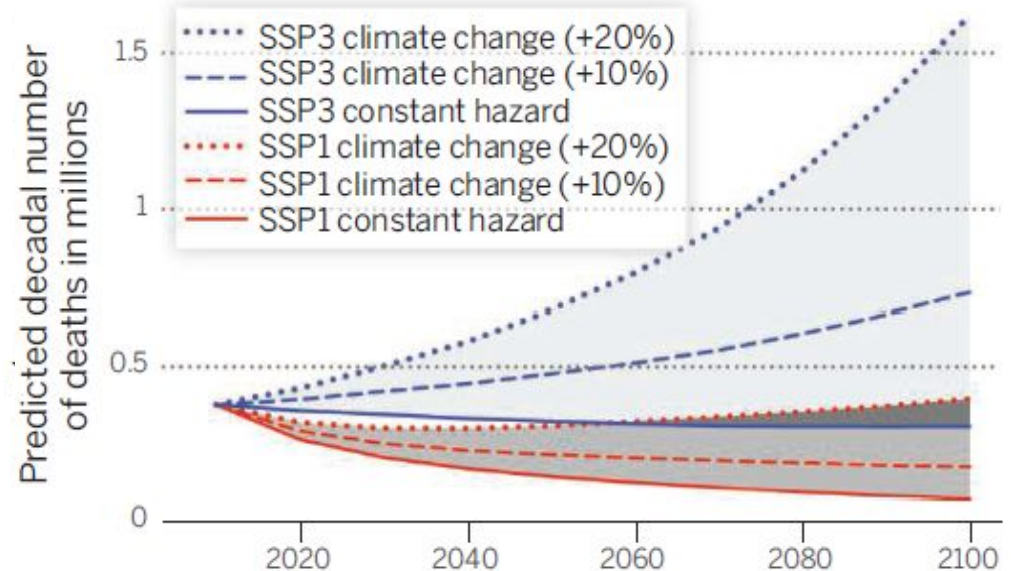
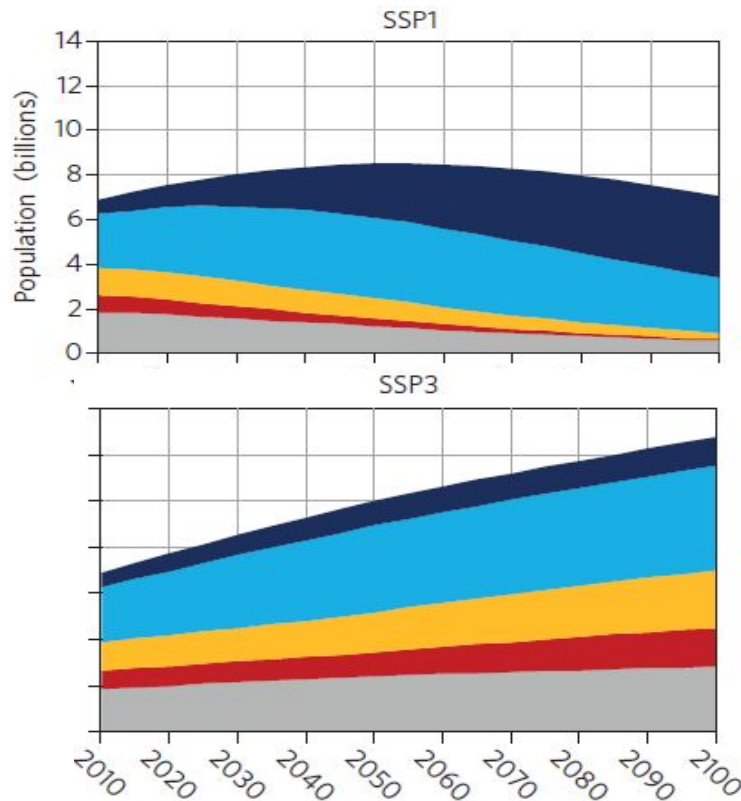
2015: Sustainable Development Goal 4:
.... *quality* **primary and secondary** education
for **all girls and boys**

Universal education is key to enhanced climate adaptation

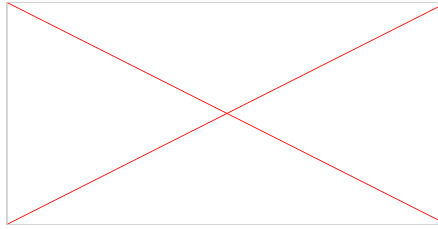
Fund more educators rather than just engineers

By Wolfgang Lutz, Raya Muttarak,
Erich Striessnig*

Expanded education limits deaths



Predicted decadal number of disaster deaths (in millions). Difference in deaths resulting from estimated education and population effects according to the contrasting scenarios SSP1 and SSP3 to 2100. See SM for details.



International | Survival of the bookish

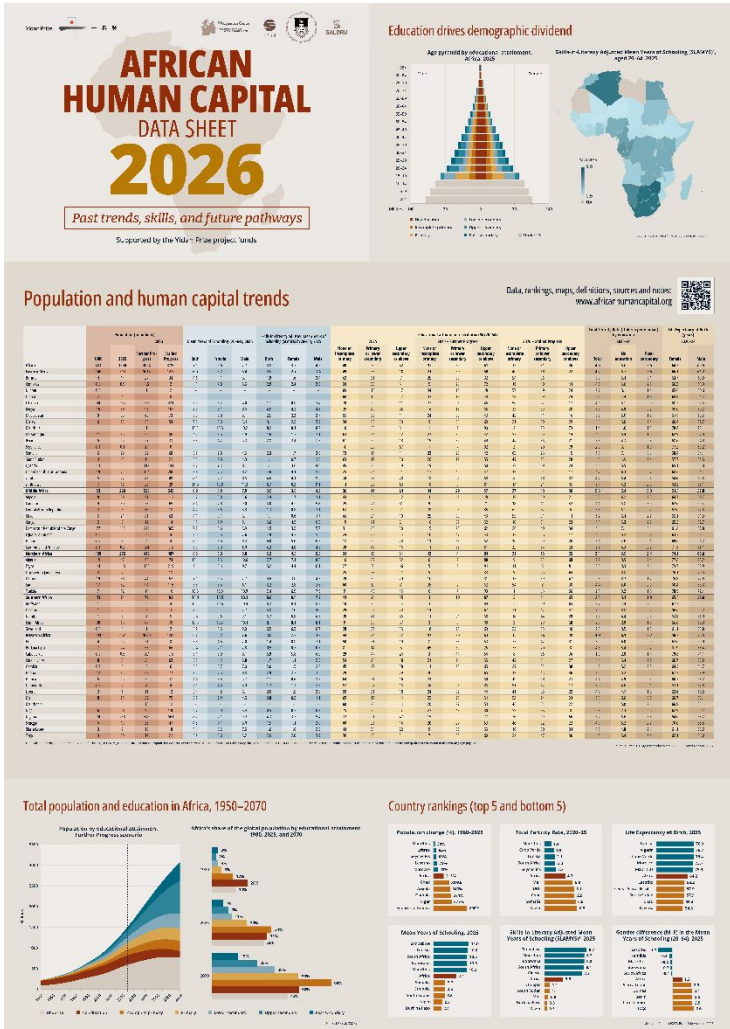
Climate change is harder on less educated people

And covid learning loss has made them even more vulnerable

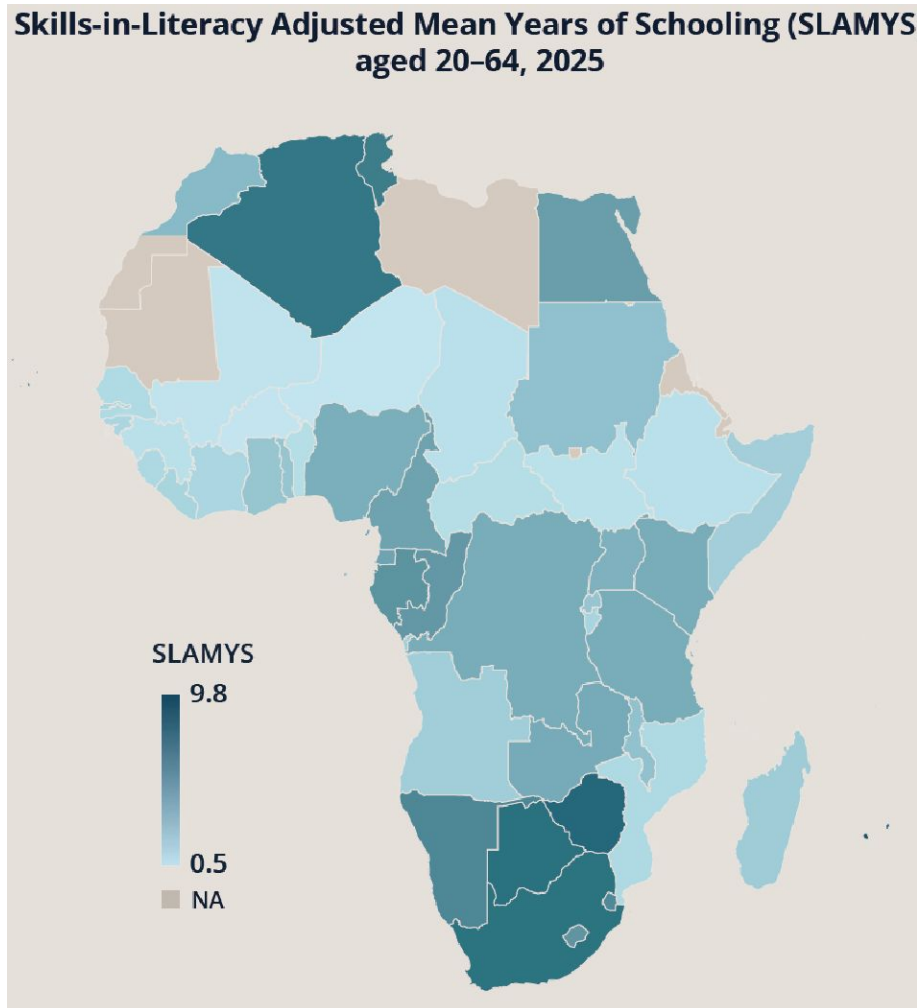


African Human Capital Data Sheet

Past trends, skills and future pathways

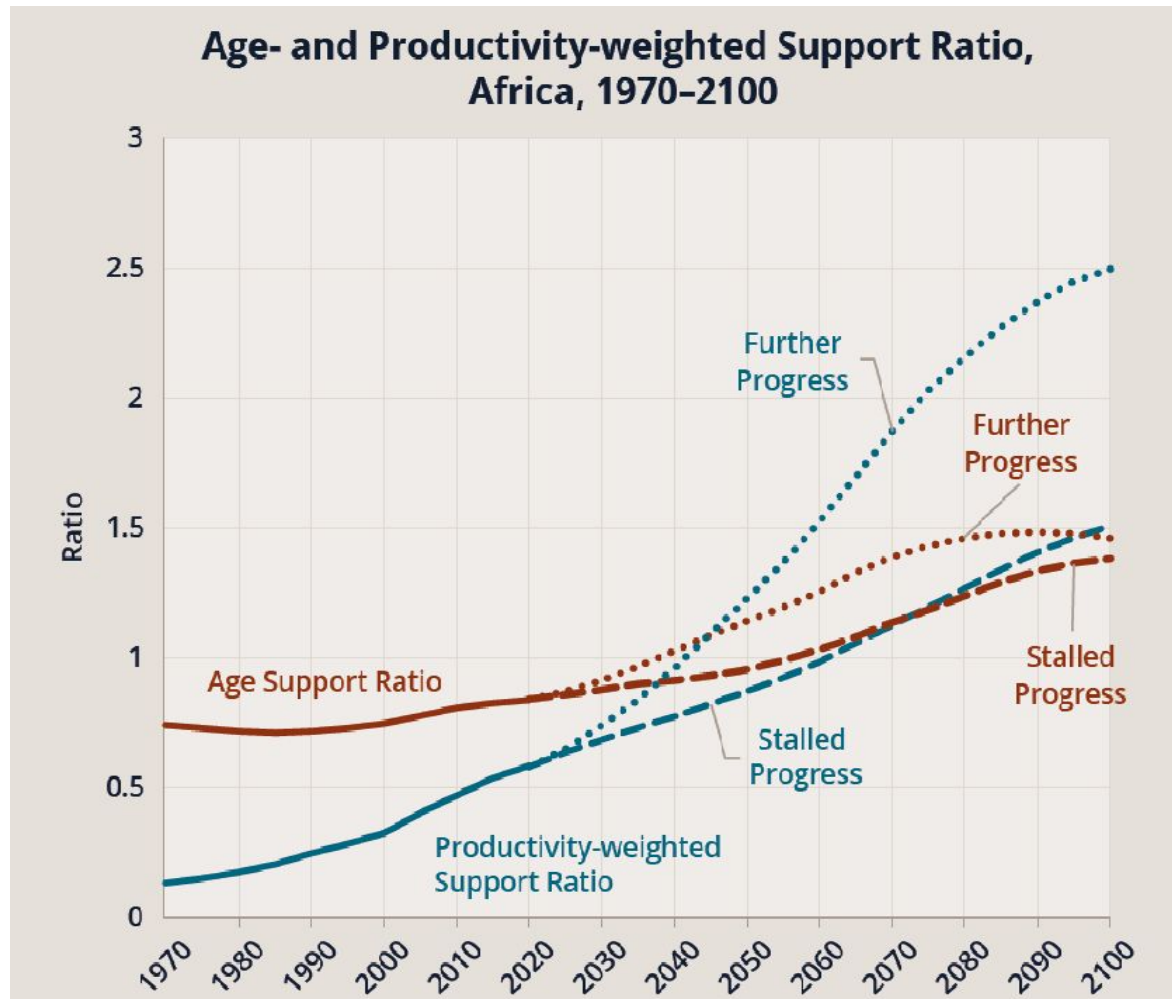


Integrating Literacy Skills into Human Capital



Adding actually tested
Skills in Literacy
(reading)
to the indicator of
Mean Years of Schooling
of the Adult Population
(**Human Capital**)

Education Drives Demographic Dividend



Thank you!

Wolfgang Lutz
www.africanhumancapital.org



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