

Years of Life = Being Alive = Life Expectancy Capable Longevity Years of **Years with Good Life** (out of poverty positive life (YoGL) satisfaction cognitive or limitations)

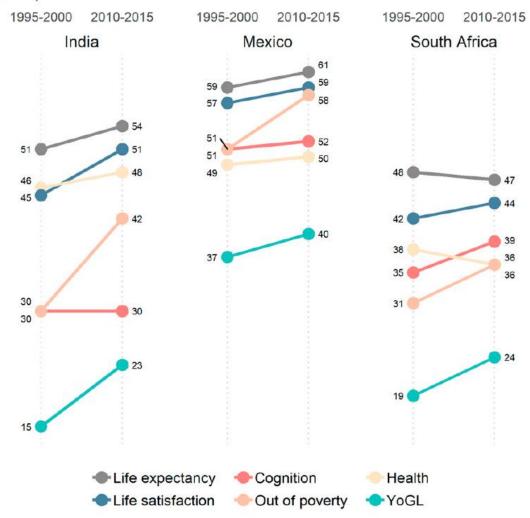
Years of Good Life (YoGL)

Life Expectancy

- Being out of absolute poverty
- Having no severe activity limitation
- Being cognitively able to function
- Having positive life satisfaction

Source: Lutz et al. (2021) PNAS

YoGL at age 20, females, change over time (Years)



Years of Good Life (YoGL)

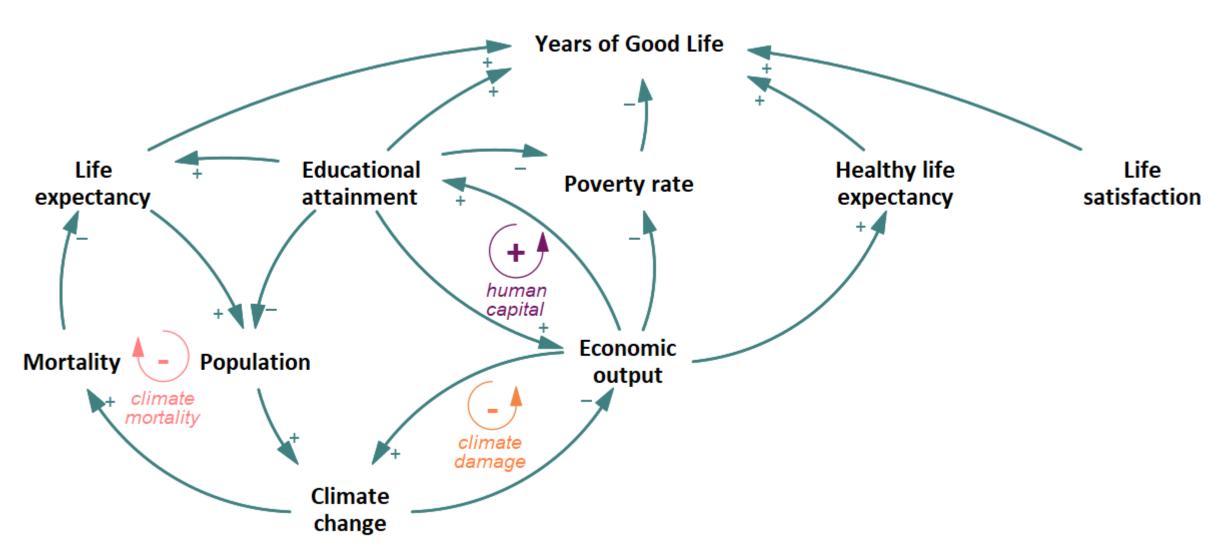
- Applied to observed past and current conditions.
- How to combine with scenarios addressing future changes including feedback from environmental change?

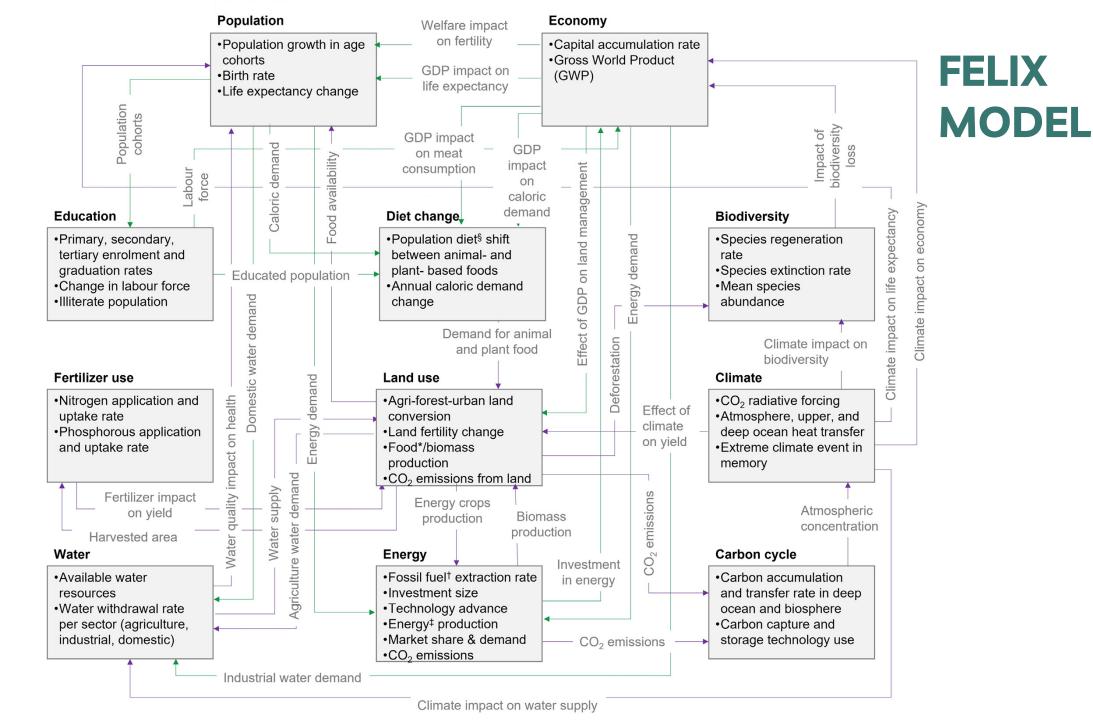
Source: Lutz et al. (2021) PNAS

Years of Good Life (YoGL)



Years of Good Life (YoGL)





Years of Good Life (YoGL)



Prevalence of "good life" for each age group and gender

Population fraction with minimum primary education

PopulationX fraction out of poverty

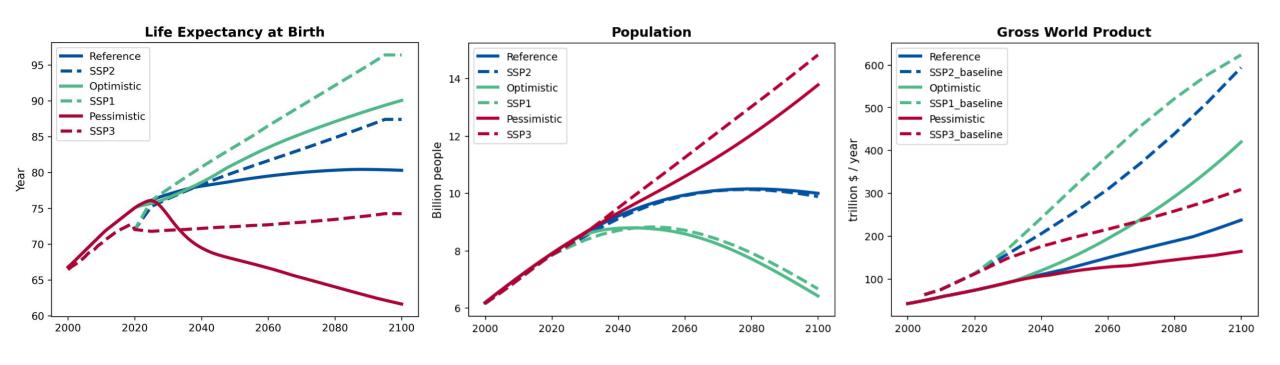
Ratio of

x healthy life x
expectancy to
life expectancy

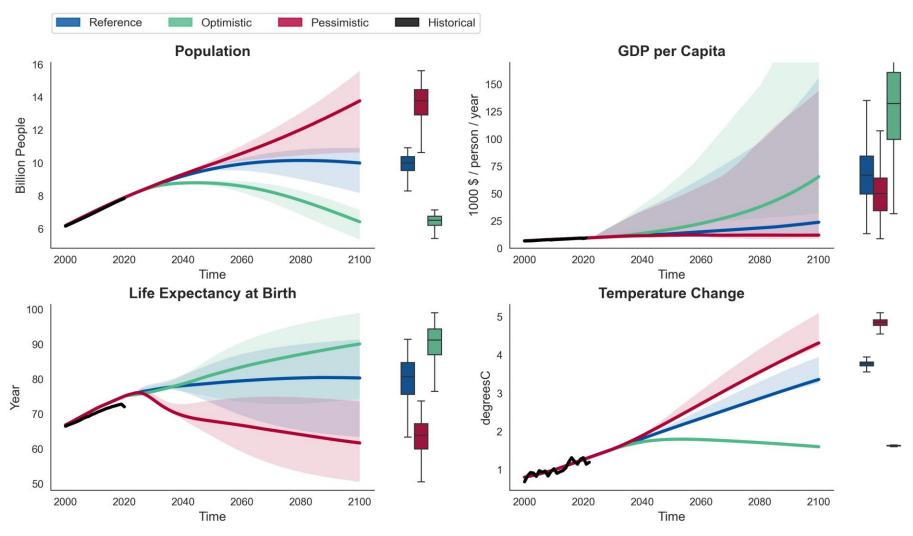
Population fraction reporting life satisfaction

Three baseline scenarios

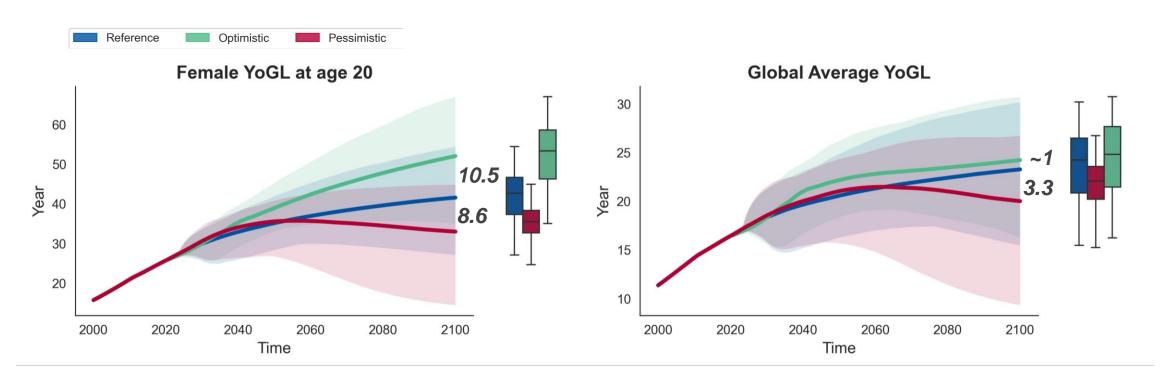
- Reference: SSP2 narrative with endogenous population and GDP + climate impacts
- Optimistic: SSP1 narrative with endogenous population and GDP + climate impacts
- **Pessimistic: SSP3** narrative with endogenous population and GDP + climate impacts



Three baseline scenarios

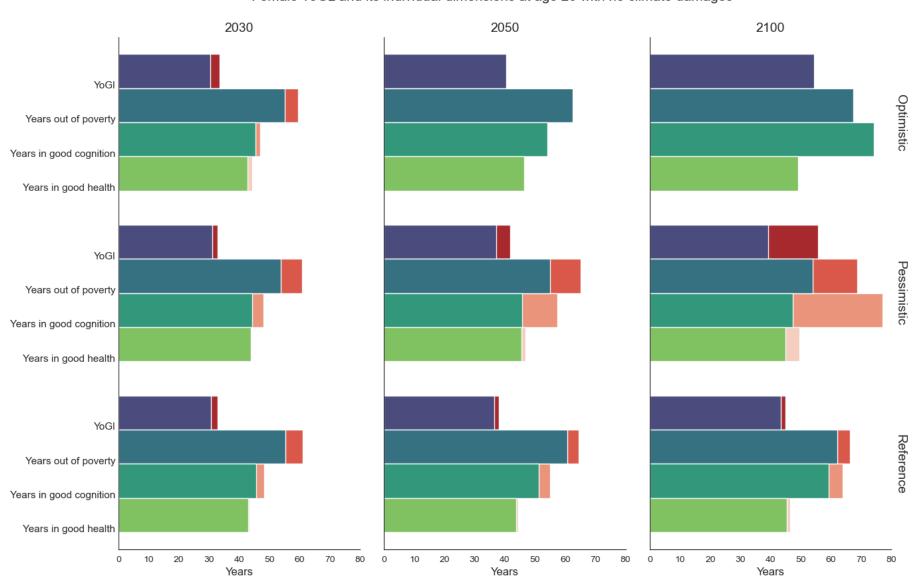


YoGL Projections



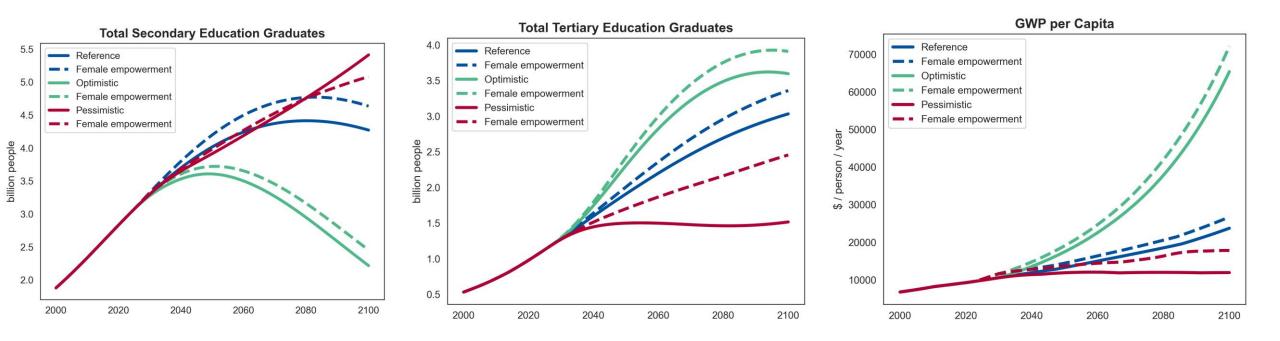
YoGL Projections

Female YoGL and its individual dimensions at age 20 with no climate damages

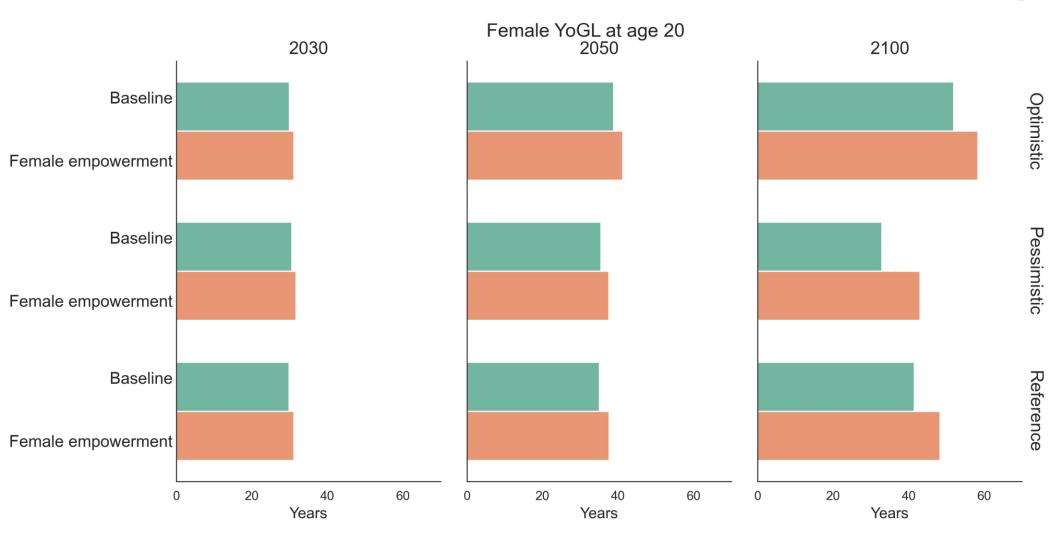


Female Empowerment

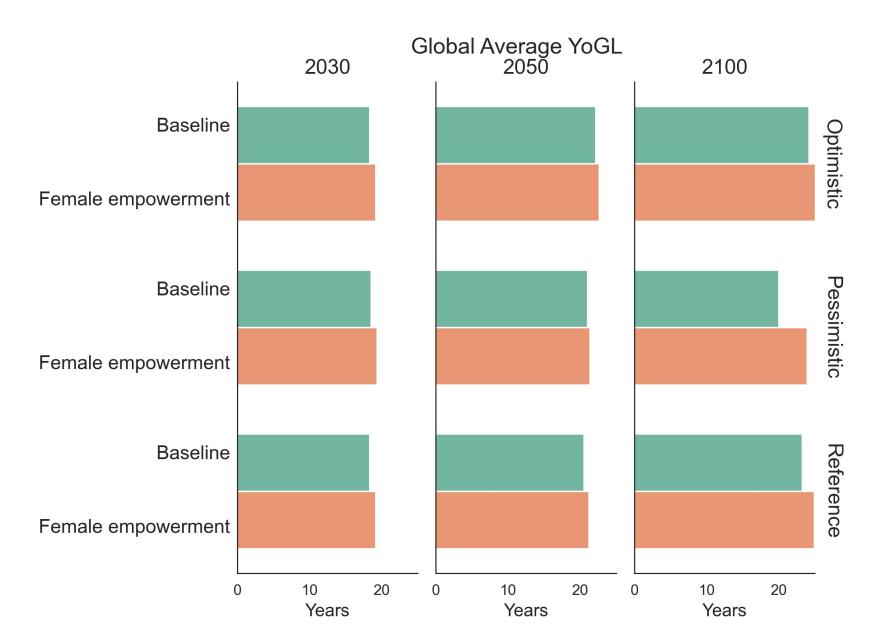
- (a) Female enrollment in primary and secondary education doubles by 2030
- (b) Female labor force participation increases, reaching 94% in 2030 for women aged 25–54, and 67.5% for women aged 55–64
- (c) Quality of secondary education increases, with "skilled" secondary education graduates increasing to 60%.



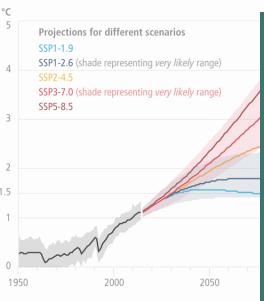
Female Empowerment



Female Empowerment



Reasons for Concern (RFC)
Impact and risk assessments assuming low to no adaptation



Human wellbeing in relation to climate, economy and environment

Sibel EKER (sibel.eker@ru.nl), Qi Liu, Claudia Reiter, Michael Kuhn IAMC Meeting 2023

Kuhn et al. (2023) Systems Analysis for Sustainable Wellbeing (eds. Lutz and Pachauri)

https://github.com/iiasa/Felix-Model/

1000



HE grant agreement No.





