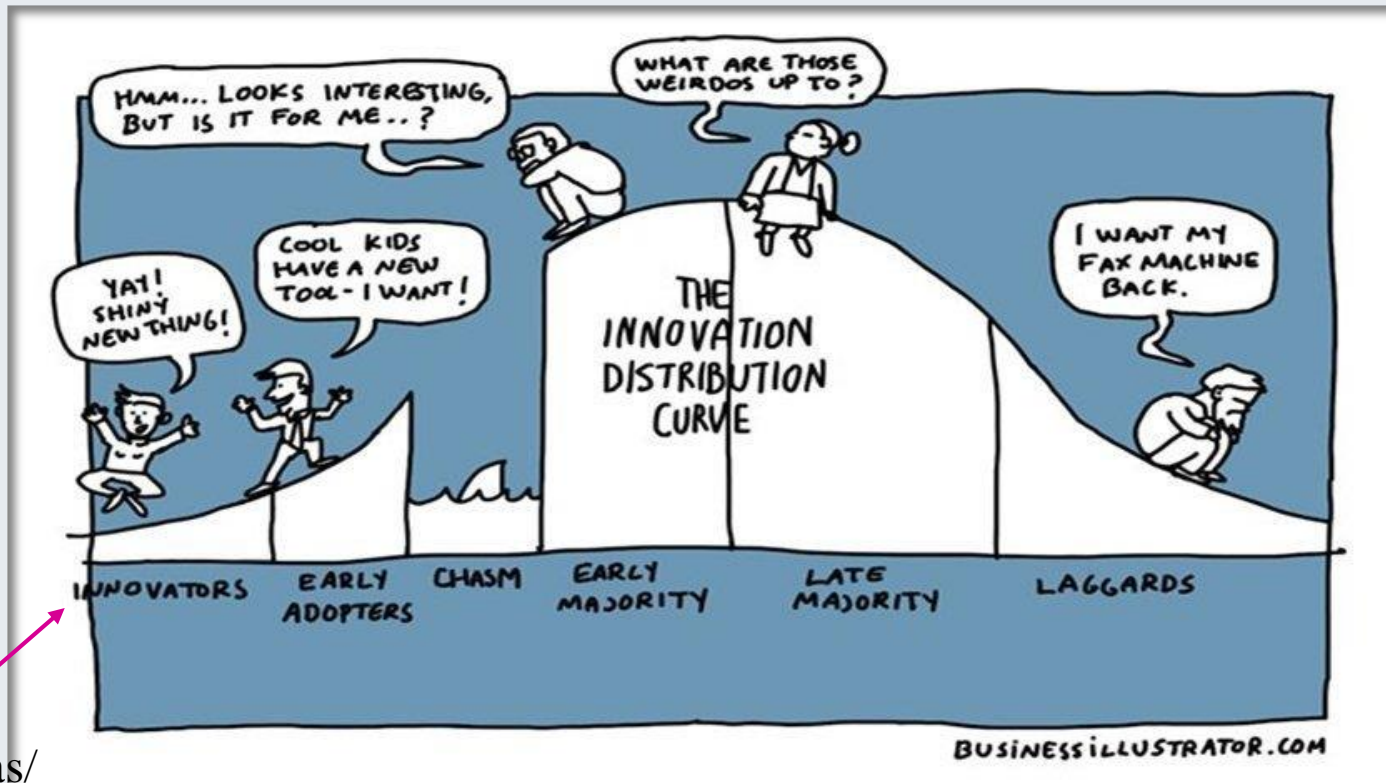


# Africa's Fertility Decline is Partly Driven by Diffusion Processes among Education Groups

Saroja Adhikari , Wolfgang lutz, Endale Kebede



New ideas/  
behaviour

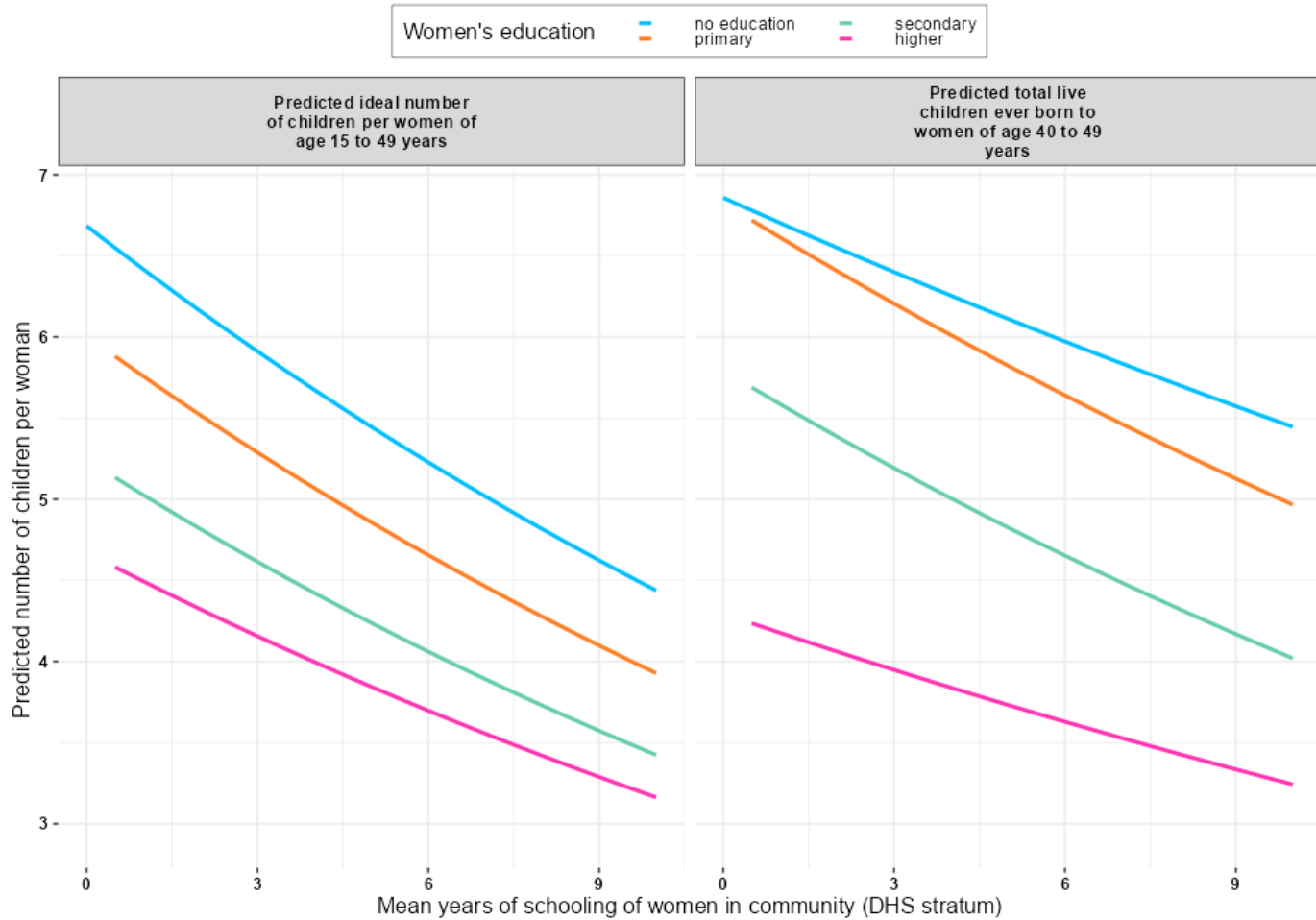
Time to diffuse idea/ behaviour among different groups of people

# Diffusion of ideal and completed fertility of women among different education levels

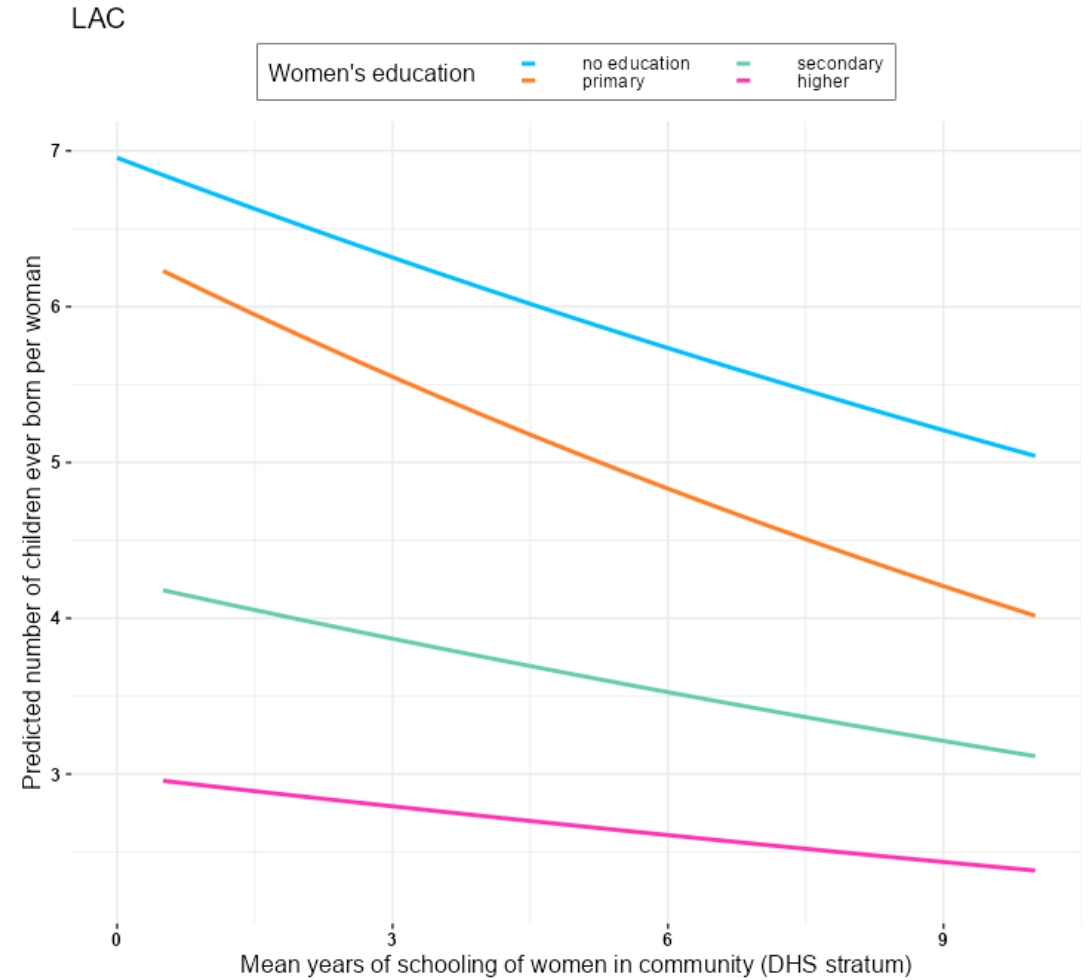
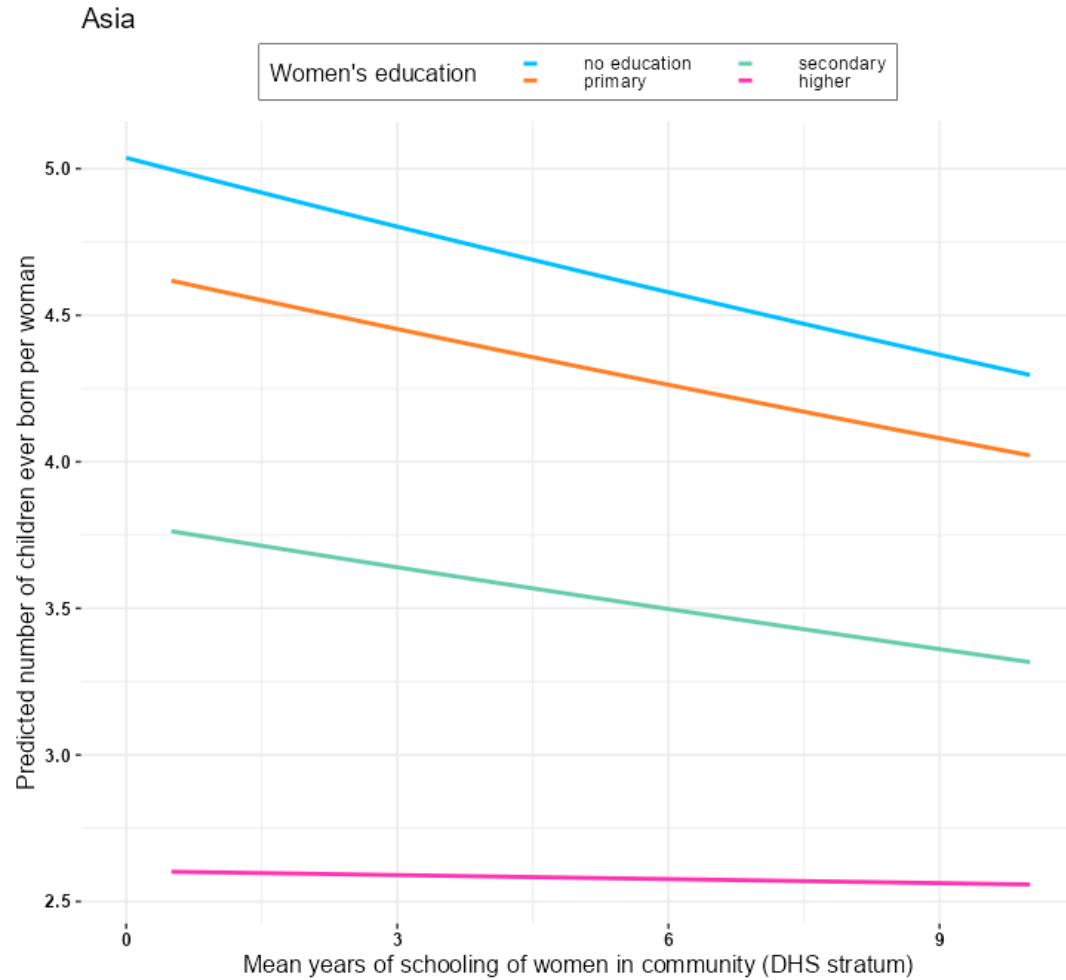
**Hypothesis:** Higher educated recognize the benefit of smaller family size first and idealize lower fertility.

Lower educated see higher educated as role model and adopt their fertility intention and behaviour.

- Fertility of higher education decline with increasing MYS: spatial diffusion between regions?



# Diffusion of completed cohort fertility of women aged 40-49 among different education levels



# Implication of diffusion on fertility projection

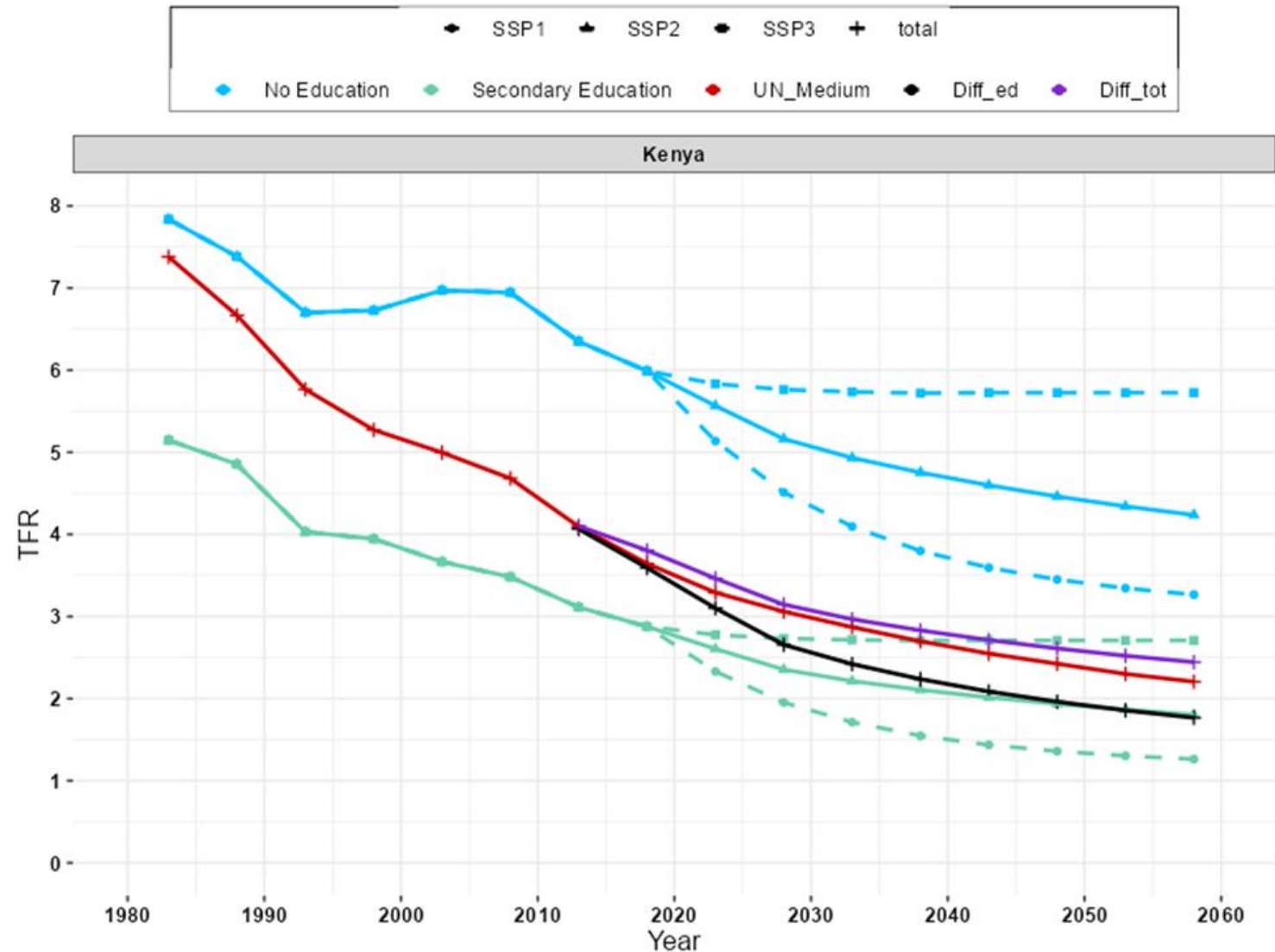
**Diffusion rate:** Rate of decline in TFR per unit change in MYS in country

**Diff\_tot:** Average diffusion rate across all education

**Diff\_ed:** Average TFR from education specific forecasted TFR (SSP2) using diffusion rate specific to each education.

**Implication:** Include the social learning impact on fertility and capture the evolving educational composition effect on fertility

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