

We need a *positive demography* to adapt to low fertility, low mortality and aging

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What do people think about global and national population size?

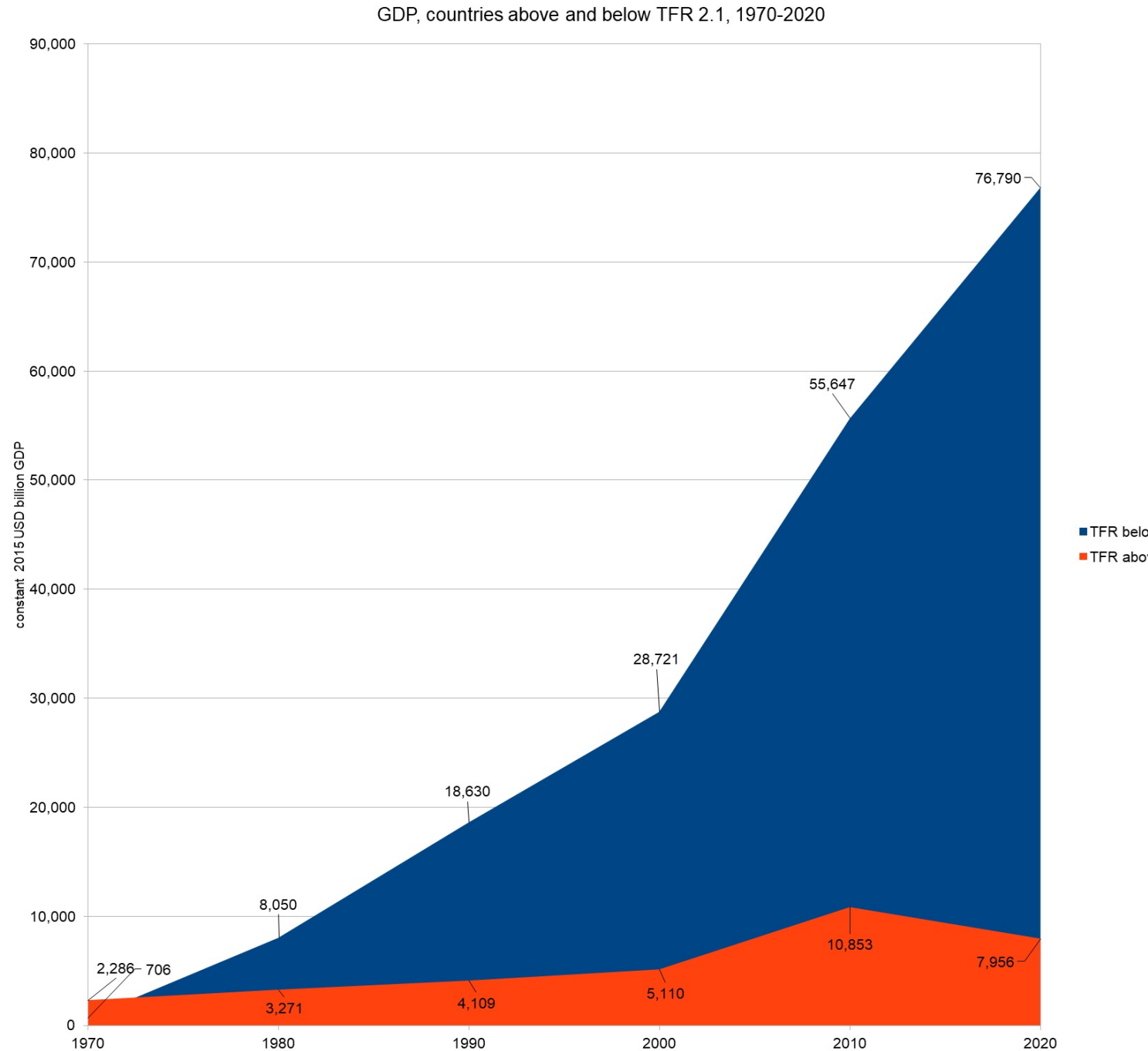
Survey evidence suggest widespread concern on population size (UNFPA 2023, CISLAC 2024):

- **Nigeria**: majority believed rapid population growth does not bring benefits (more than three times the number who thought it was beneficial)
- Percent agreeing that *population size is too high*
 - *globally*: 53% in Egypt, 63% Nigeria, 76% in Hungary, 49% in the US
 - *in own country*: India: 83%, US 37%, Japan 16%, France 26%, Egypt 56%, Brazil 50%, Nigeria: 72%
- **Key reasons for fertility decline often seen as positive development** – education, less unplanned fertility, less adolescent pregnancies, more gender equality

How many children do we need to sustain our cultures, economies and genes?

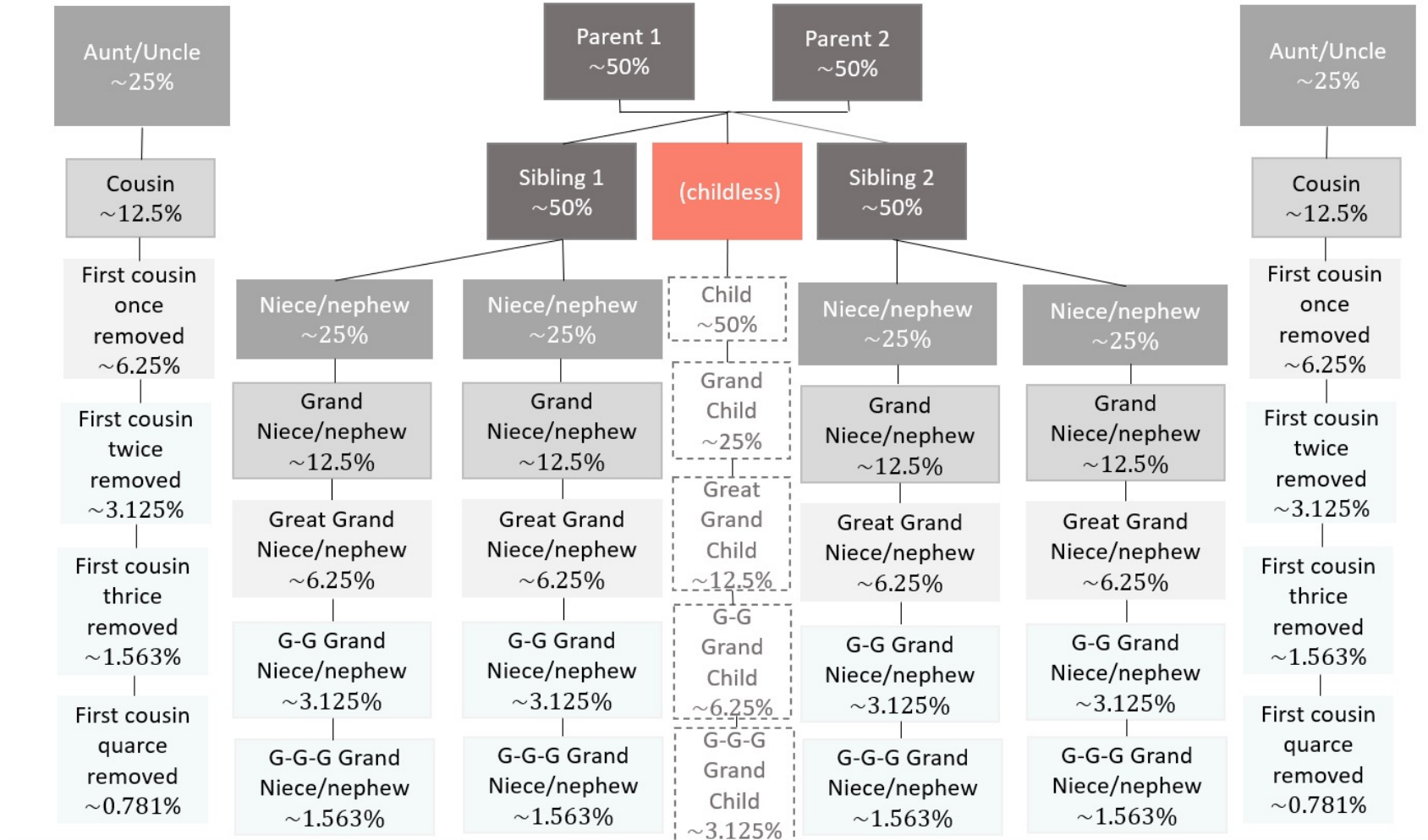
1. How many people are needed to uphold a **culture**, a belief system and way of life? A culture? Many successful cultural markers are spreading in spite of (or because of) low fertility. E.g., American, Korean, European cultures strong influence *and* low fertility
2. Job replacement: **automation** displacement potential high. One study: Among agricultural workers (now 800 million) only around 2% needed if *current* technologies implemented (Vittis et al 2022). AI increases job displacement. Low fertility nations dominate global economy
3. How many children do we need to pass on our **genes** at the population level?
 - Genetic similarity very low after 6-7 generations; few differences in genetic similarity between childless and parents.

Almost all
economic growth
in below
replacement
fertility countries



Source: Navarro and Skirbekk 2023

Genetic consequences of own childlessness low



Underinvestments in skills where population growth is high.

Shares with below lowest PISA score

S. Gust et al.

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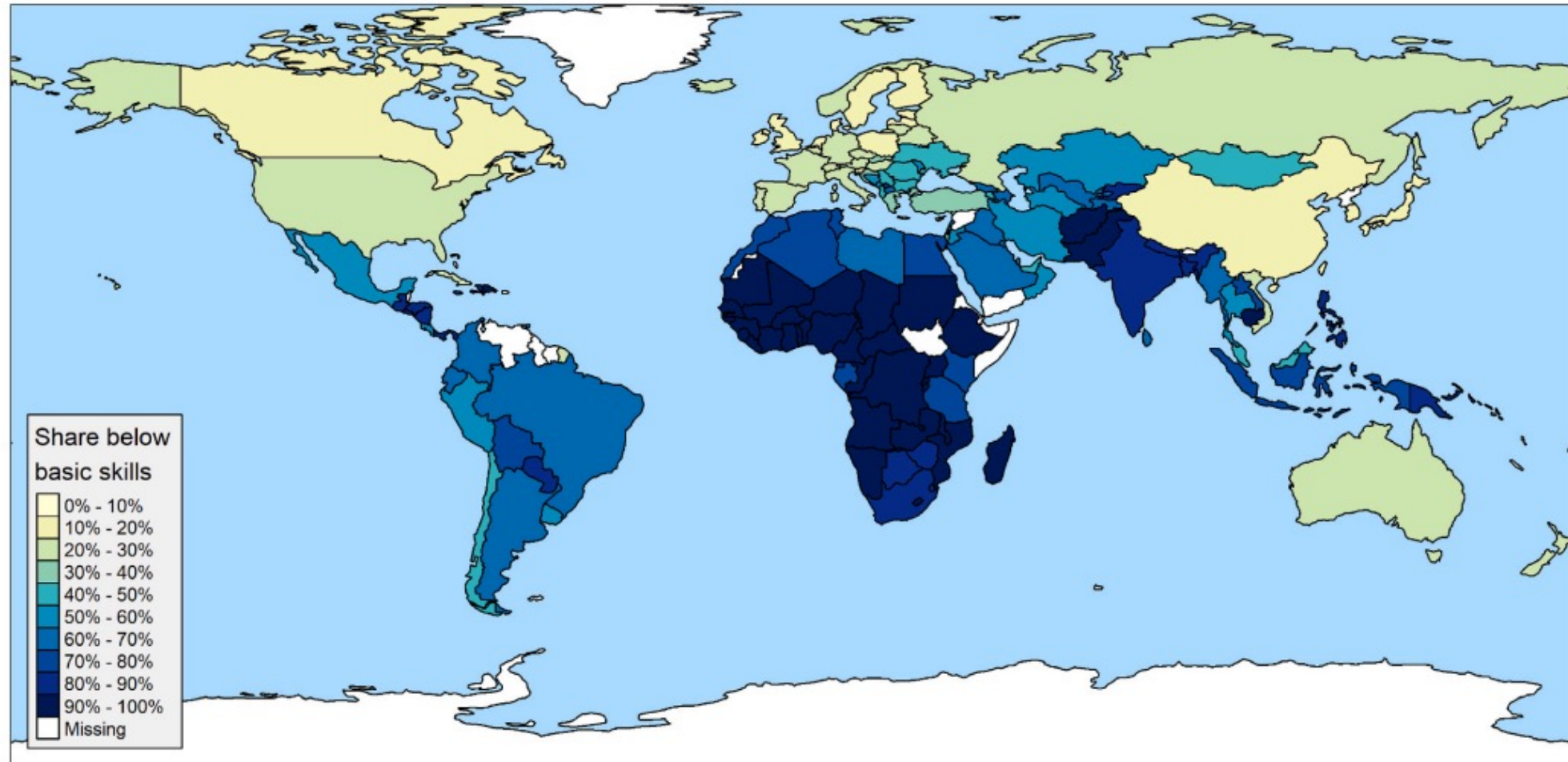
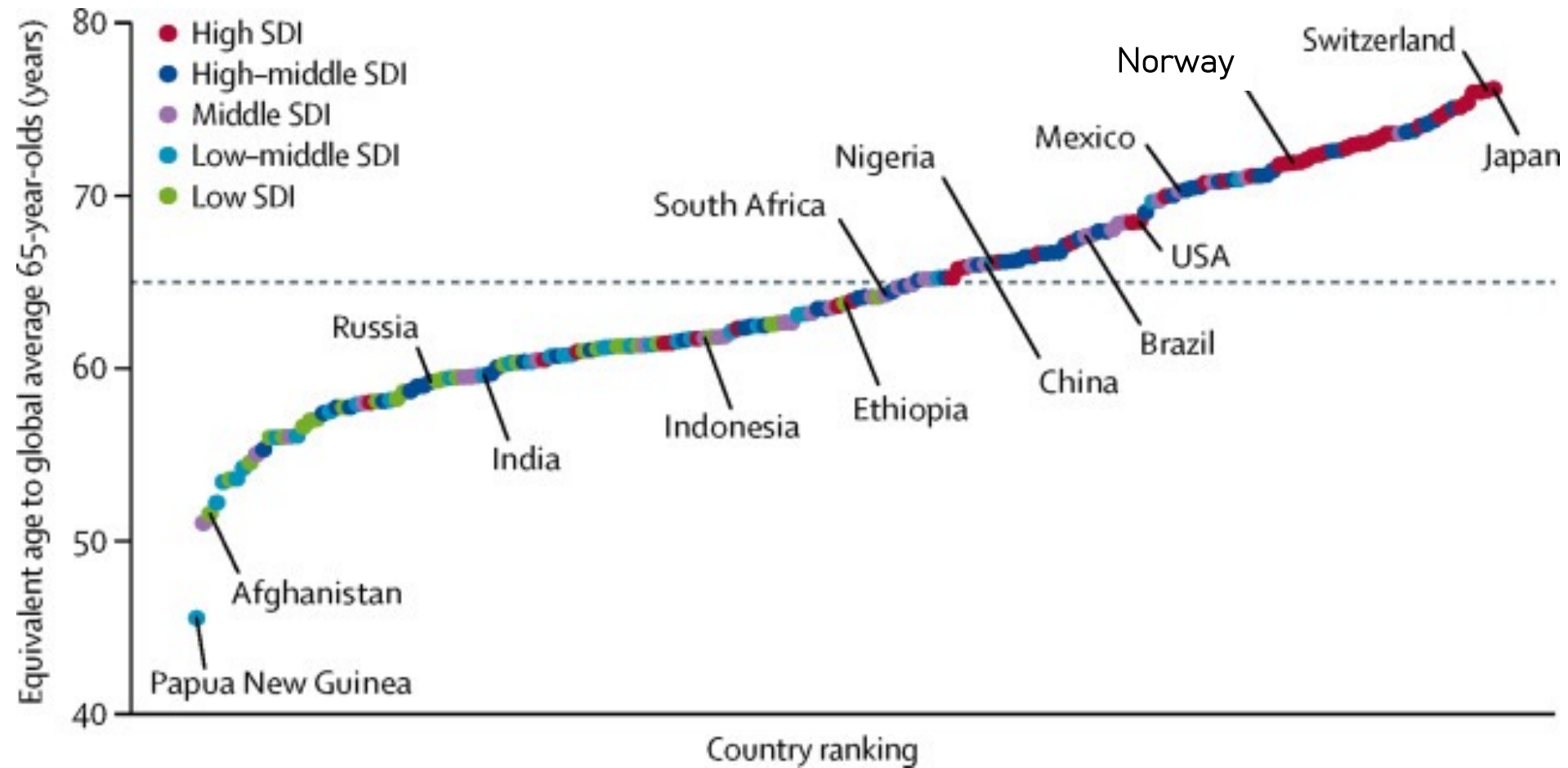


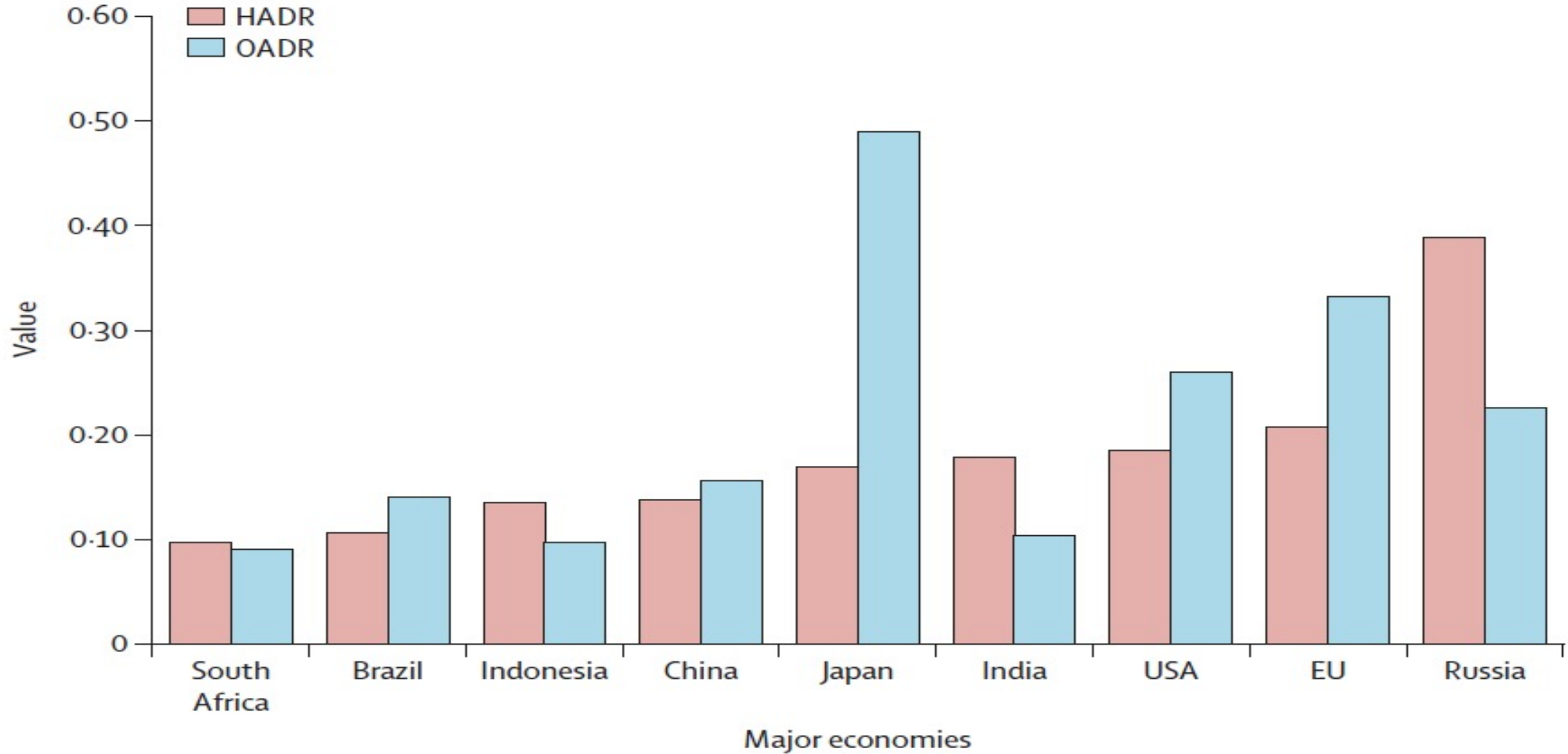
Fig. 3. World map of lack of basic skills: Share of children who do not reach basic skill levels.

Notes: Estimated share of children (incl. those currently out of school) who do not reach at least basic skill levels in math and science (equivalent to PISA Level 1). See section 3 for methodological details.

Average age national health equals global 65 year old



Health-adjusted dependency ratio (HADR) and old-age dependency ratio (OADR) for selected major economies. Higher values indicate higher ageing burden.

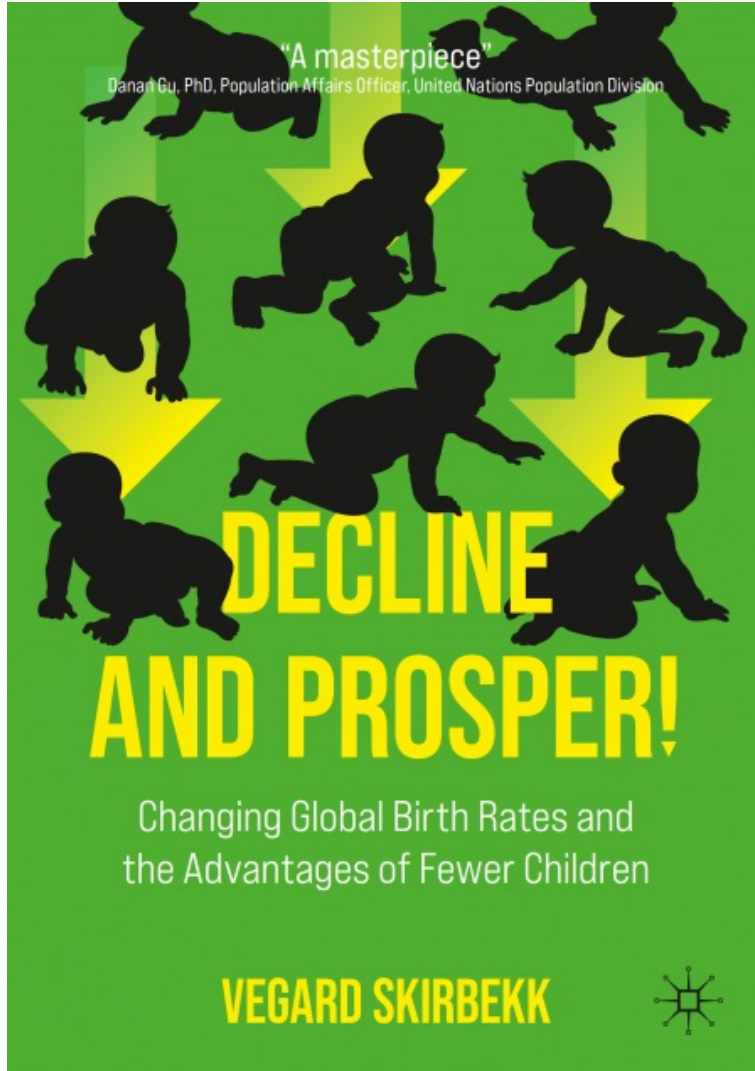


Source: Skirbekk et al. Lancet Healthy Longevity 2022

In sum

- Who ages best in terms of health and functional is the 21st century challenge
- 'Young' countries often worse health – functionally older
- We have weathered higher dependency ratios in the past
- It will be easier this time given better technologies
- Learn and adapt from low fertility nations to become 'successful agers' at country level

Fewer births inevitable. We must adapt, focus on benefits of demographic change – which will help us Decline yet Prosper!



The Economist

By Invitation | Global fertility

Vegard Skirbekk on why we should embrace low fertility rates

“Dr. Skirbekk’s prescriptions could help ameliorate [...] problems [...] throughout the developed world.”

The New York Times

“This impressive book covers biology, historical fertility research, demographic transitions, individual behaviour [...] will soon become a must read for anyone interested in this topic”

- Melinda Mills, University of Oxford

“Goes beyond typical discussions”

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“A masterpiece”

-Danan Gu, United Nations Population Division

“Accessible...enjoyable to a broad audience”

-Alicia Adsera, Princeton University