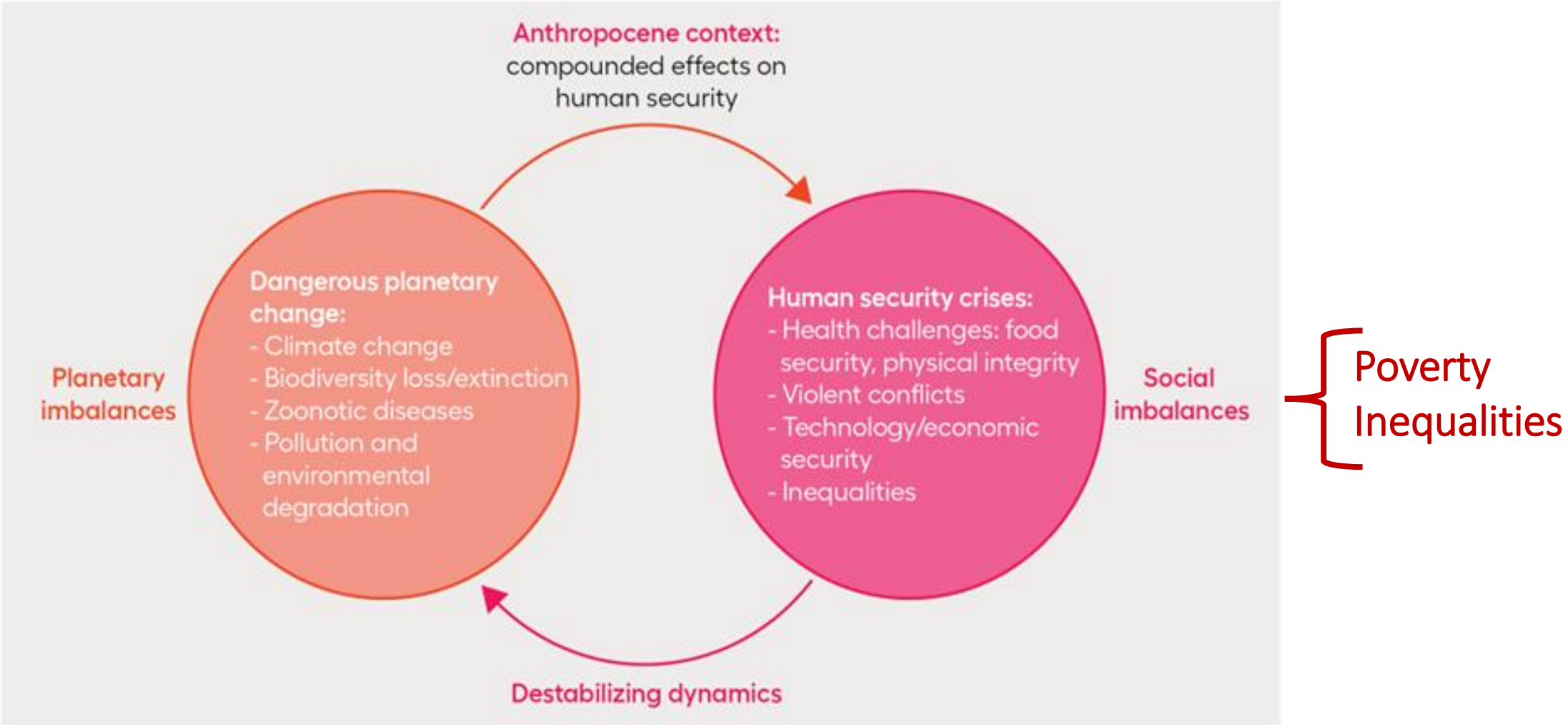


Climate change, food insecurity, and poverty: a turning point?

Heriberto Tapia & Moumita Ghorai
(Human Development Report Office, UNDP)

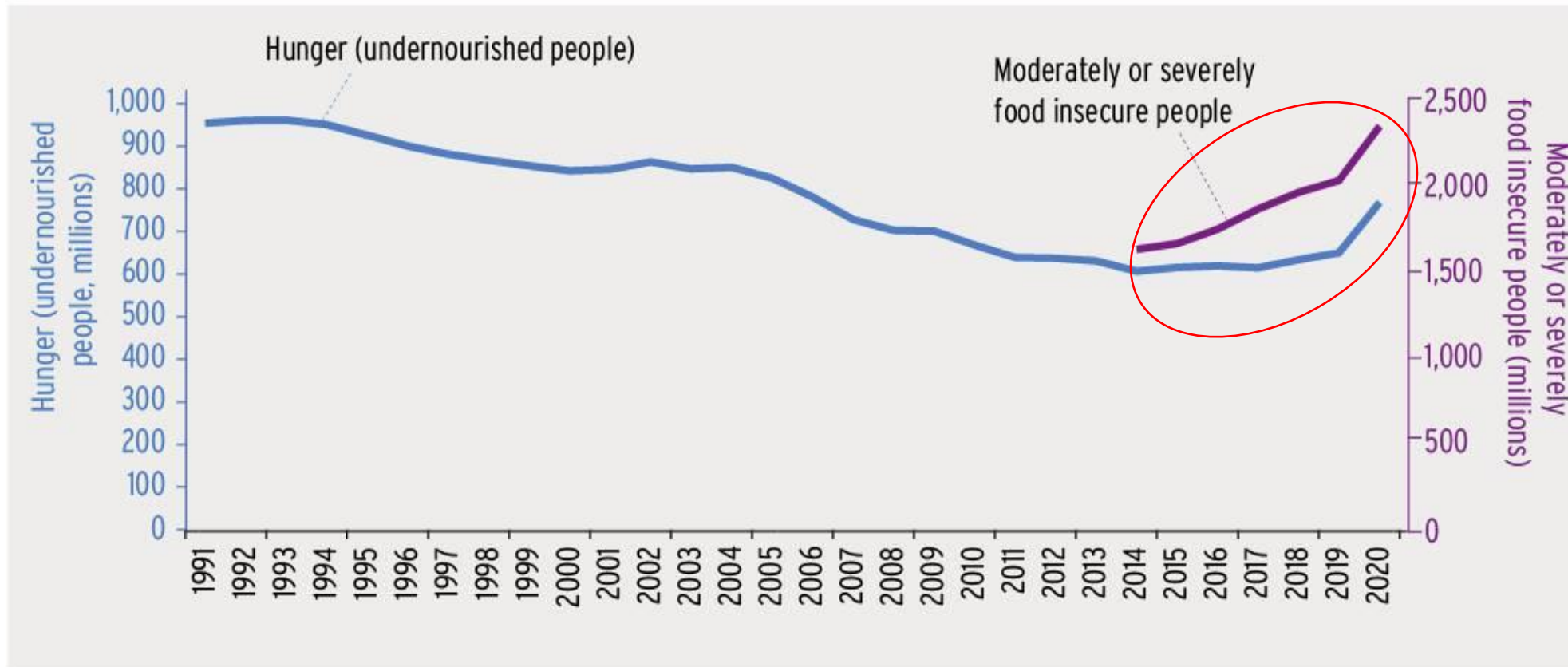
Anthropocene Context



Source: UNDP (2022).

Food Security is on the rise

After decades of improvement, food insecurity started to rise (even before COVID-19)

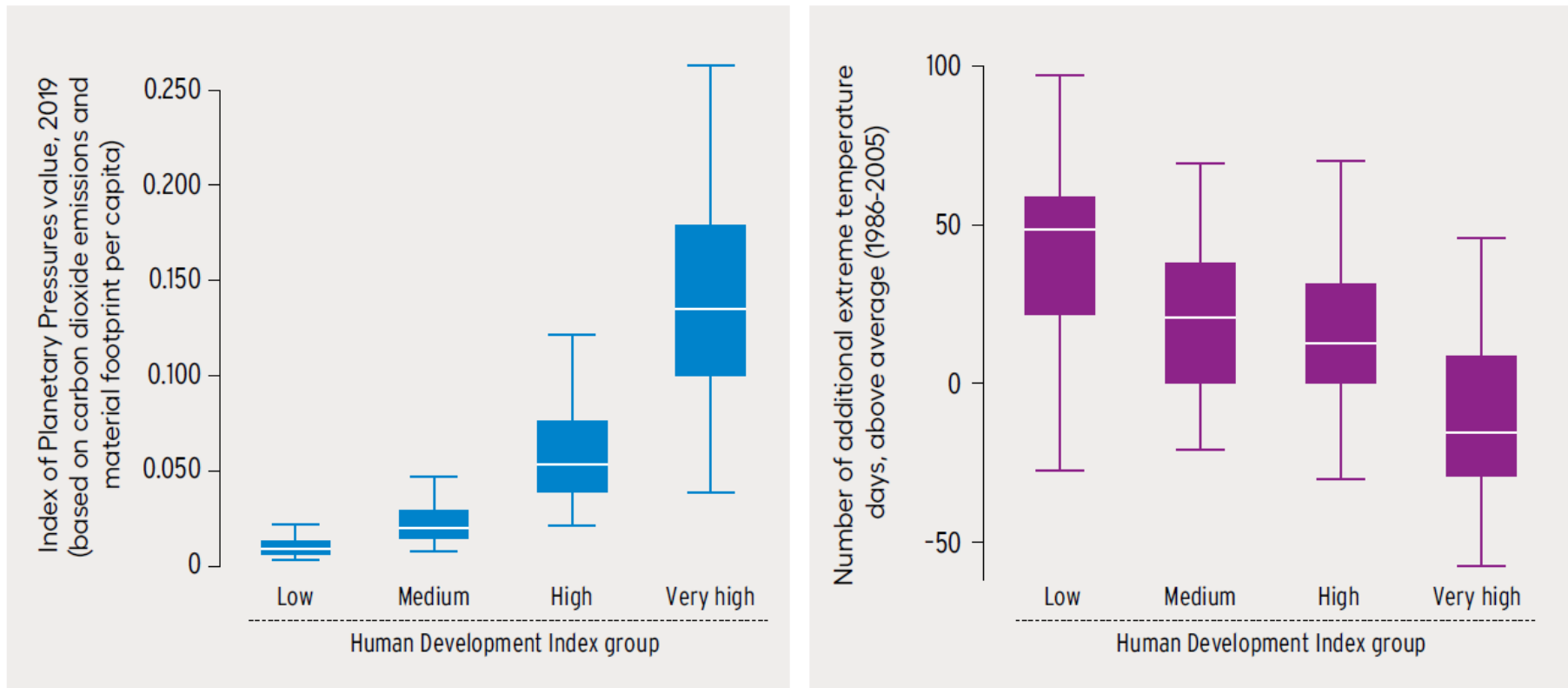


A new trend?

Multiple factors, climate change is a significant driver going forward

A Destabilizing dynamic in motion...

The destabilizing dynamic of climate change: More developed countries tend to capture more benefits from planetary pressures and less of their costs

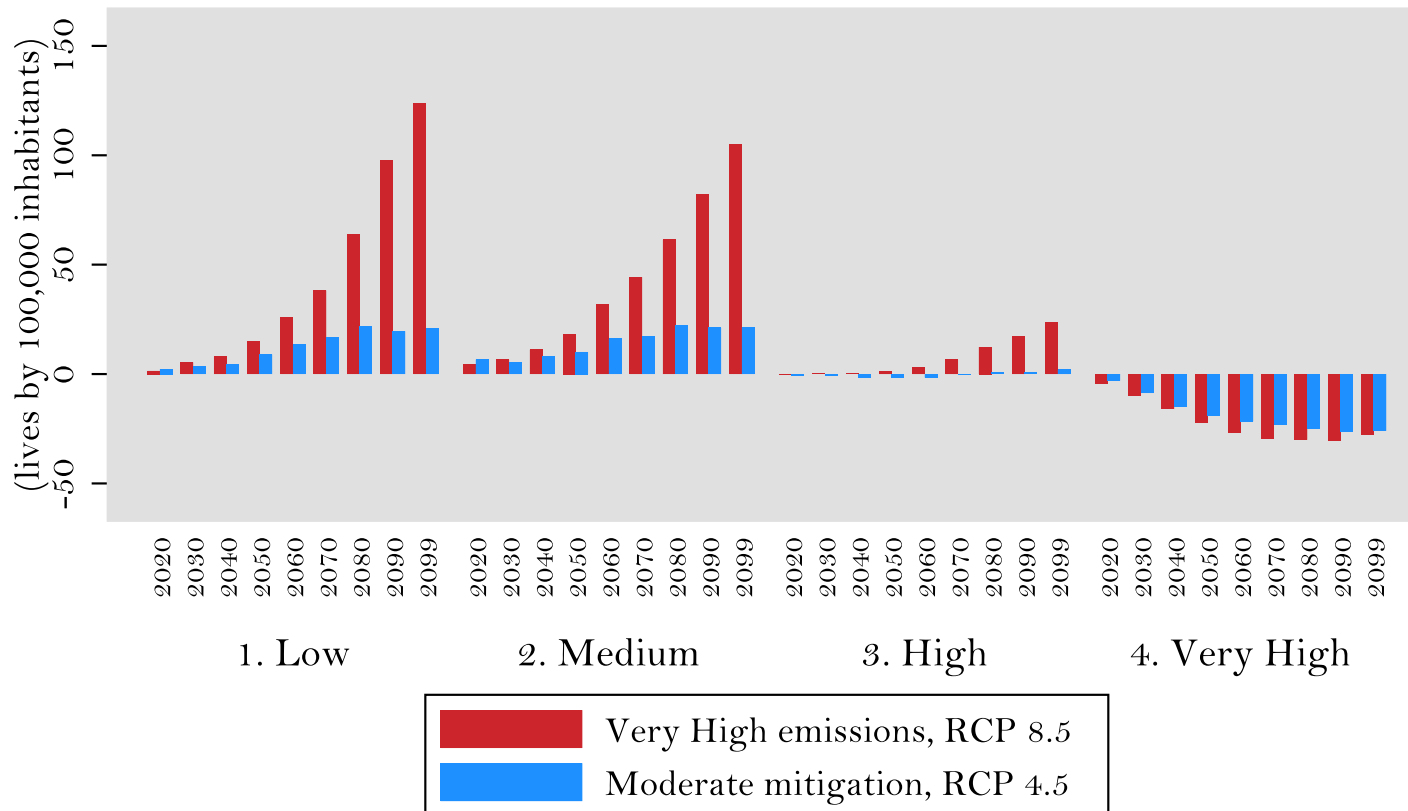


Source: Human Development Report Office based on Carleton and others (2020) and UNDP (2020).

Source: UNDP (2022), based on Carleton and others (2020) and UNDP (2020).

Growing threats to multidimensional poverty in the developing world

Additional death rates due to climate change and development
(per 100,000 inhabitants)



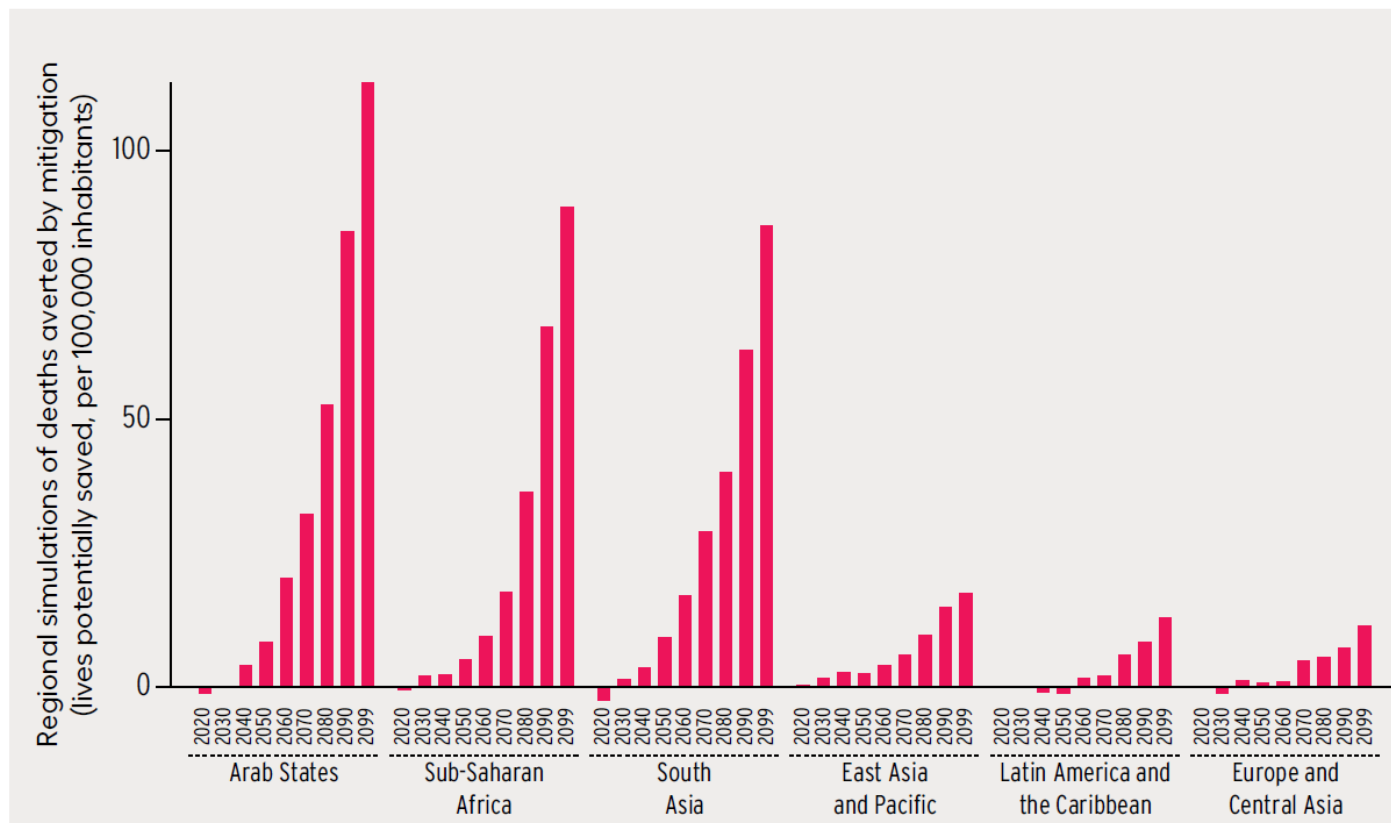
Effects are highly asymmetric, with a greater burden on poorer countries.

Pressure on different dimensions of multidimensional poverty: including nutrition, health, work, and living standards.

Source: HDRO based on Carleton and others (2020).
Weighted by population.

Collective action can save lives...

Mitigation can save lives, in particular in developing regions



Mitigation might save up to 150 million lives globally from now to the end of the century.

It can also curb climate-change-led inequality

Note: Comparisons are between Representative Concentration Pathways 4.5 and 8.5. Aggregates are weighted by population.

Source: UNDP (2022), based on Carleton and others (2020).

The way forward

- A new trend? Pressures are there, we need to act.
- Reaffirm mitigation as a critical global action area, a pillar for the goal of reducing multidimensional poverty.
- Adaptation with a focus on vulnerable regions. Even with moderate mitigation, climate change is here and will intensify in the next decades. 40 million people still could die during the rest of the 21st century, mostly in poorer countries/subnational regions.
- Human security lens, integrating policies. The intensity of climate-change-led shocks will grow and propagate across regions, and across dimensions of human development, likely reflected in multidimensional poverty. Critical importance of integrated approaches based on solidarity.