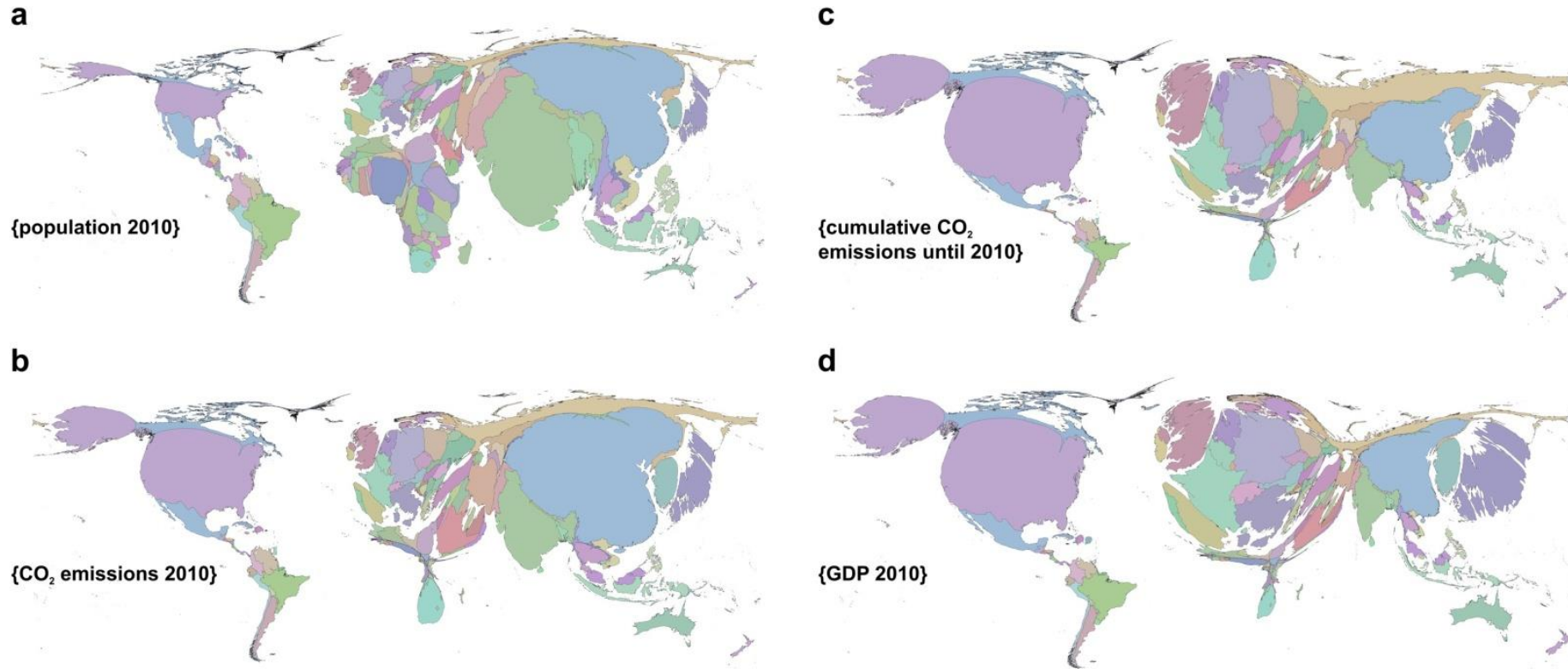


National Climate Change Responsibilities



Cartogram set “National climate change responsibilities”: visualizing the relation between population numbers, CO₂ emissions and wealth of countries by distorting country polygons by

- population in 2010 (a)
- fossil-fuel CO₂ emissions in 2010 (b)
- cumulative fossil-fuel CO₂ emissions from since industrialization (around 1850) to 2010 (c)
- gross domestic product (GDP) in 2010 (in constant 2010 US\$, market prices) (d).

Distorter variables are indicated in curly brackets.

The similarity of c and d visualizes that the wealth of most countries is based on their climate-damaging emissions since industrialization. It is these emissions and not the emissions in a particular year that are relevant for climate change (Döll 2017).

Reference Döll, P. (2017): Cartograms facilitate communication of climate change risks and responsibilities. *Earth's Future*, 5, 1182-1195. doi:10.1002/2017EF000677.