Climate impact scenarios

Potential security gamechangers, implications for energy geopolitics and the social licence

Blindspots in overlays of exponentiality and democracy

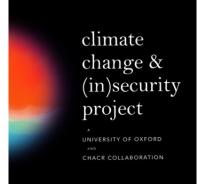


11 July 2023

Ms Thammy Evans, QVRM, MSc @thammyevans







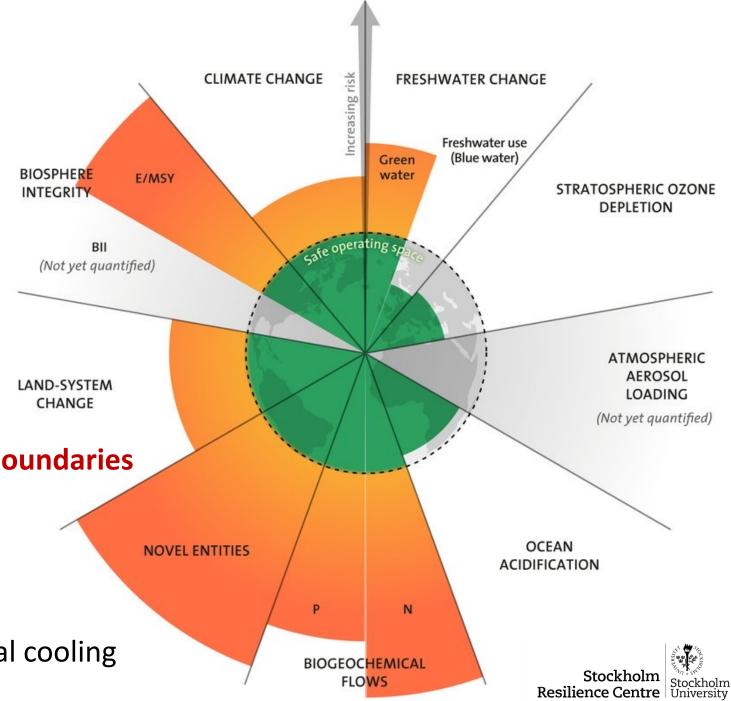
Geotech Centre

Atlantic Council

China Hub

Planetary boundaries

- more than just climate
- more than just CO2



Perma- & poly-crises of our planetary boundaries

– biotic and abiotic:

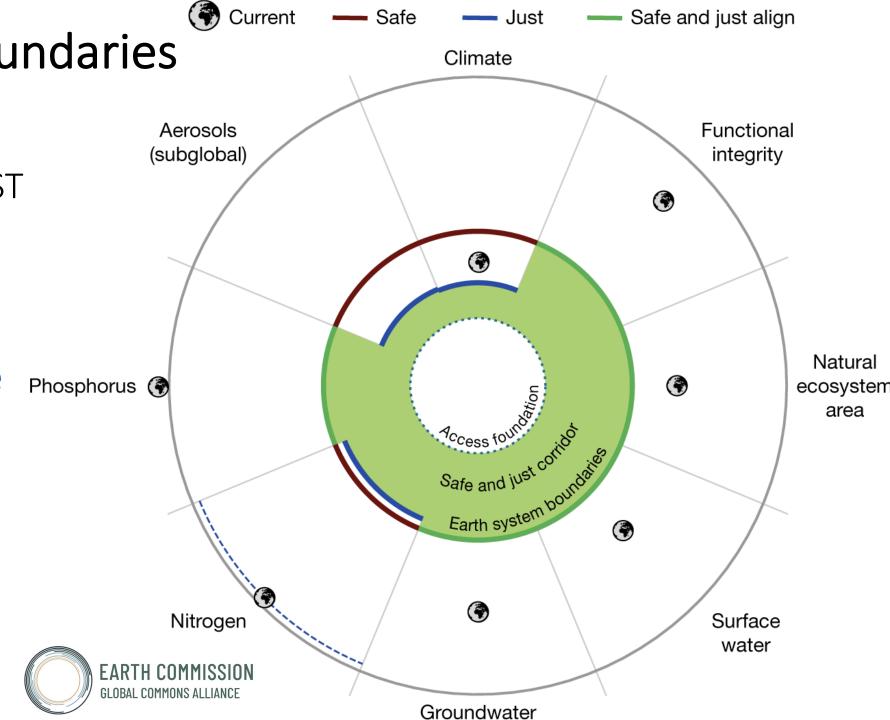
- Food, land & agriculture (FLAG)
- Fishing, shipping, travel
- Rainfall, water availability for industrial cooling

Earth Systems Boundaries

- more than ecological
- also about justice
- i.e. what is SAFE and JUST

Affected people are demanding equitable, sustainable governance

- Impact management
- Social return on investment
- 2000+ cases of climate litigation



Ukraine

"The eighth challenge is ecocide, the need for immediate protection of environment."

President Zelensky



China

Ecological civilisation written into the PRC constitution

Small-island states being driven into security partnerships with China: eg Solomon Islands

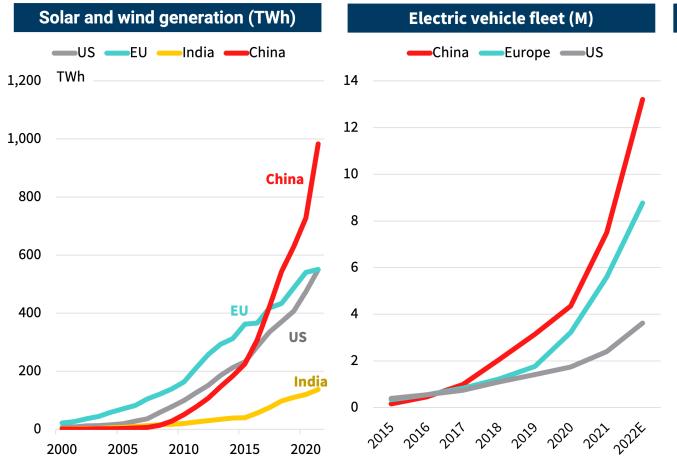
Green Belt & Road

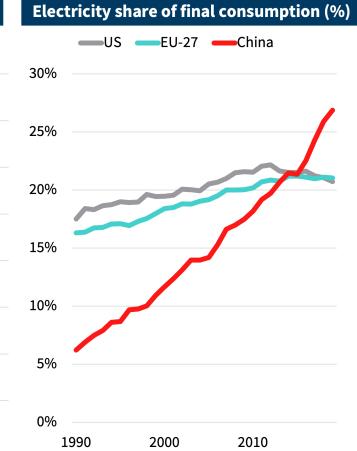
Saudi-Hong Kong tech partnership 2023

Dominating seabed mining licences

China dominates deployment of renewables



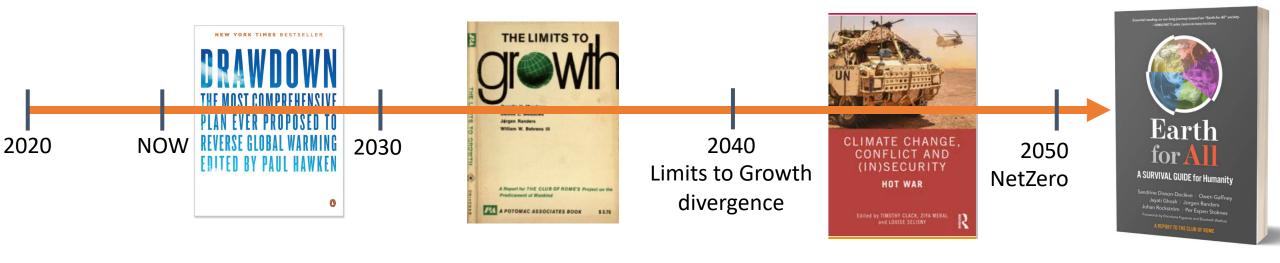




RMI – Energy. Transformed.

Timeline 2040

Gaya Herrington / KPMG https://advisory.kpmg.us/articles/2021/limits-to-growth.html



Food	Energy	Water	Displacement
25 harvests remaining in over-farmed soils	Maladaptation from linear race for more	Eutrophication of water from fertiliser runoff (eg Mississippi)	Sinking cities
Heat limit of crops	Developmental justice	Water scarcification	Uninsurable property
	· · ·		Demographic decline
Chronic & acute disease	Whole system efficiency	Hydrological cycle collapse	Migration rise

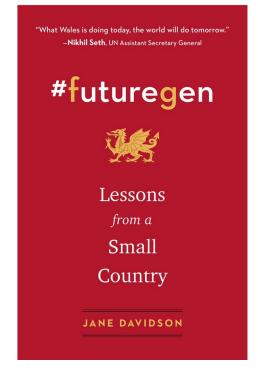
Social license is the new market currency

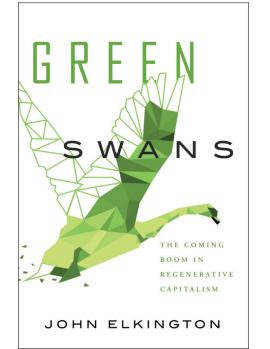
Sub-sovereign deep democracy and future generations are holding companies to account in unprecedented ways

Shift perspective to find solutions in what has been seen to date as collateral damage, such as water, indigenous populations, justice

- Whole systems thinking include the rising cost of externalities
- Gender empower your planning team and bring in #futuregen
- Skate to where the puck is going regenerate circular ecosystems

Push the industrial policy spectrum to *regenerate* ecosystems to *protect and recycle* resources – find green swans to avoid black swans and grey rhinos





Thank you for your attention

