

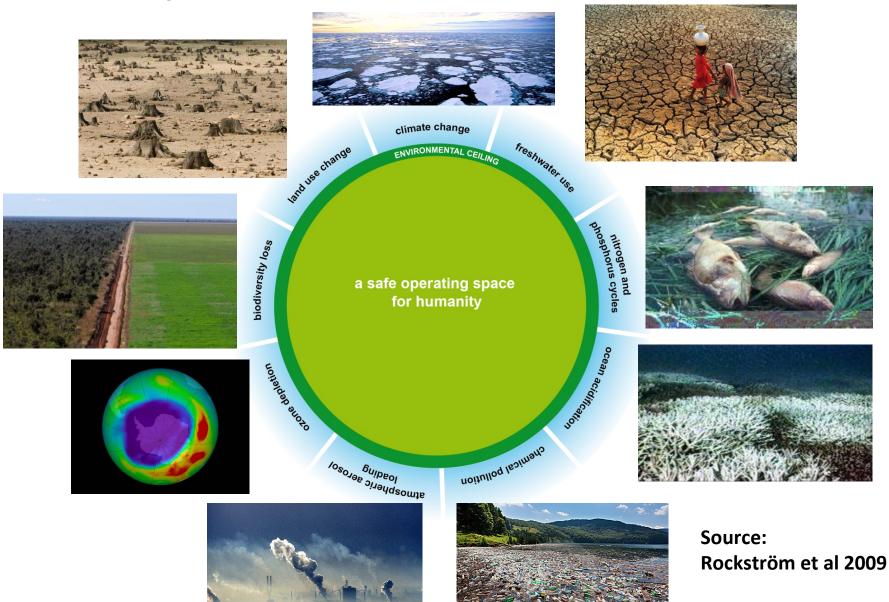


Sustainability is political Building pathways in a safe and just space for humanity

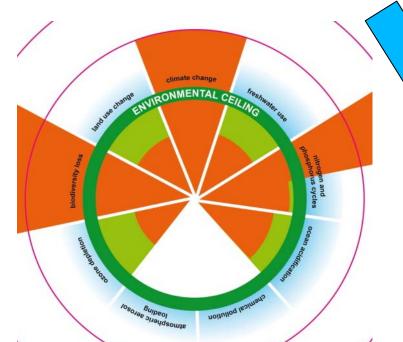
Melissa Leach

Expert Group Meeting on "Science and Sustainable Development Goals" UN Headquarters, 20-21 March 2012

Planetary boundaries



Resource stresses



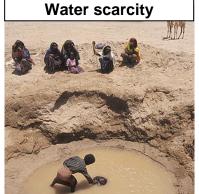
social meanings; institutions; political-economy

Scarcities, challenges, deprivations

What outlook for people already living in poverty?

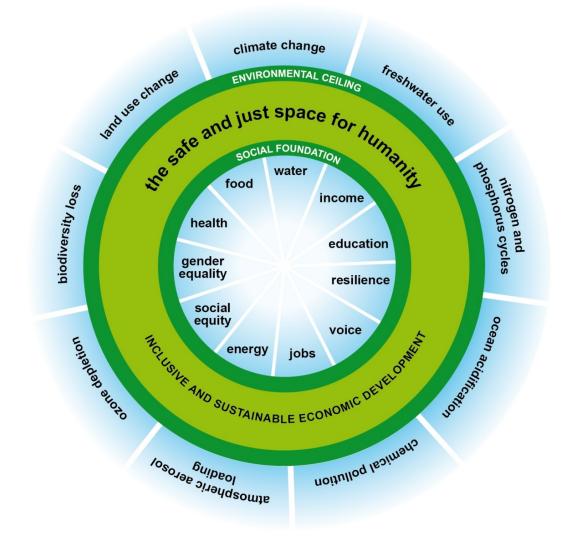








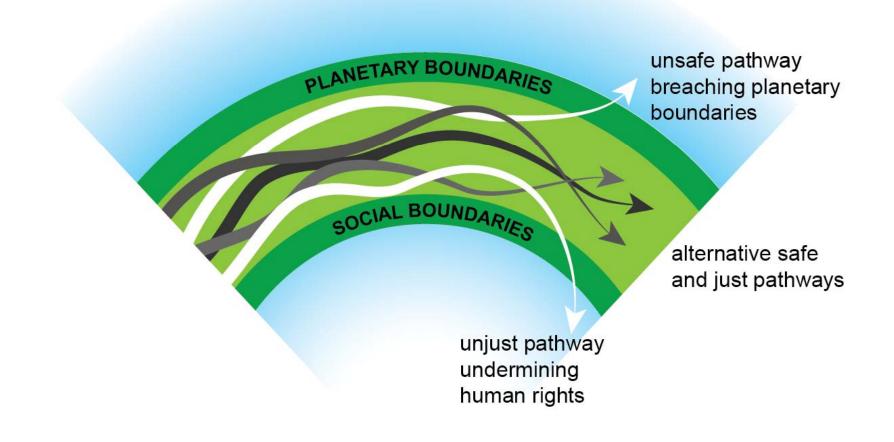
Social and planetary boundaries: creating a safe and just space for humanity



Source: Raworth 2012, based on Rockström et al 2009



Possibilities within the safe and just space: diverse pathways, alternative directions and varying distributional outcomes



Source: Graphic design by Lisa Dittmar

For example, alternative pathways to 'sustainable' food futures'



small-scale farmer livelihoods



participatory breeding



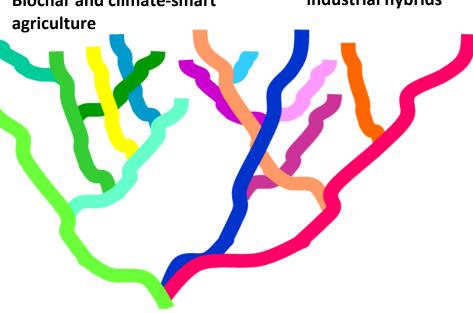
Biochar and climate-smart



industrial hybrids



transgenics

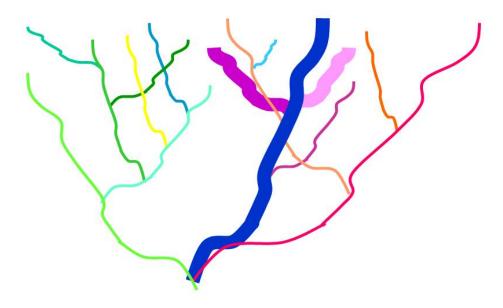




power and contingency 'close down' choices







'Opening up' sustainable development – three Ds

Direction

- What directions are different pathways headed in?
- What directions do other possible pathways offer?
- What goals, values, interests, power relations are driving particular pathways and how might they be 're-steered'?

Diversity

- Is there a sufficient diversity of approaches?
- Resists powerful processes of lock-in
- Responds to uncertainty, build resilience avoid 'putting all eggs in one basket'
- Responds to variety of contexts and values



Distribution

- Who stands to gain or lose from current or proposed pathways, or alternatives?
- Gains in resource access, well-being, power
- Bearing of costs and risks
- How will choosing between different pathways affect inequalities of wealth, power, resource use, and opportunity?



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Sustainability is political

- There are many pathways to sustainability
- Power often closes these down
- Sustainability is about empowerment, not necessarily the surest experts or the loudest voice
- Answers lie in equality of engagement, plurality of interests and diversity of paths



A new science for pathways to sustainability

Interdisciplinary and transdisciplinary approaches

- Characterising actors, systems, boundaries and pathways
- Understanding the technical, social and political processes that shape pathway directions, diversity and distribution

Integration of science and engagement

- Science advice that is plural, conditional and involves decision-makers and citizens
- Fostering critical, reflexive, engaged approaches within science

Inclusive debate and dialogue

- Amongst groups of scientists, publics, policy-makers
- Debating the politics of knowledge