

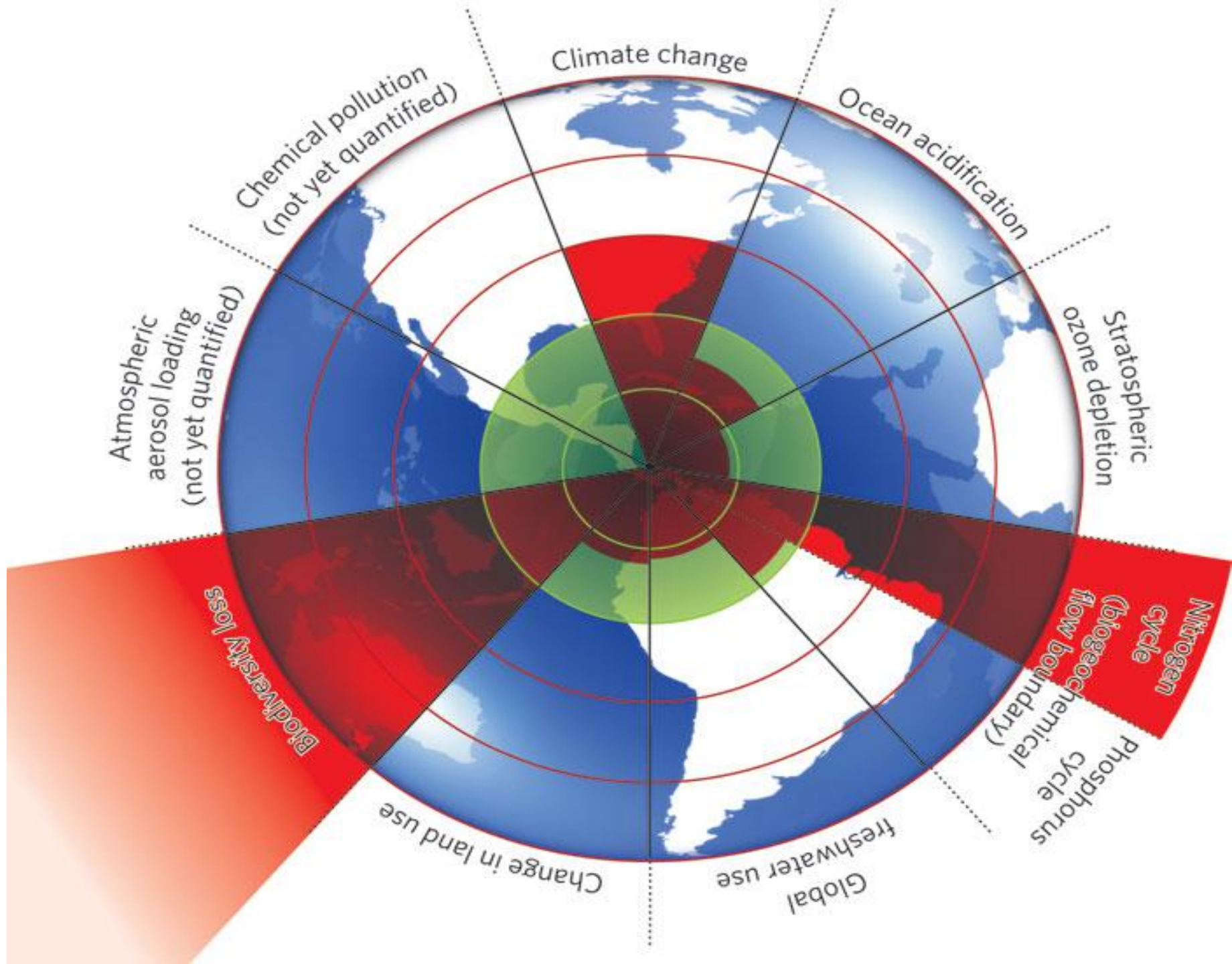
Switching to SD from Financial Turbulence

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ESDN Conference
Ghent
Tuesday 6th July 2010

Green Growth and SD

- Financial turbulence may lead to 15 million young adults in the EU unemployed by 2015 (10 million now)
- Lower public sector pay plus delayed and reduced pensions may slow EU economic growth by around 1.5%
- Any new conventional growth will have to come primarily from exports and innovation, not consumption nor financial services, nor endless financial stimulus
- Green growth may absorb one quarter of this potential, but it requires plenty of start-up investment funds



The Economics of Ecology and Biodiversity (TEEB)

UN Green Investment Programme and UN Environment Programme

Follow through of the Millennium Ecosystem Assessment and reflected in the UK ecosystem stocktake, and the *Future of Land Use* Project

Pay off of between 5 and 10 to 1 for ecosystem maintenance investments

Implications for land use tenure, for metrics, for sustainability accounting combining ecological and social capital, for redirecting subsidies, and for redesigning accountancy of public and private sector investment

This decade will experience the acceptance or inability to recognise TEEB

A role for ESDN/EEAC is to design and justify new measures, outlooks, and institutional arrangements for incorporating TEEB into green growth

SD Audit of Green Growth

- Renewables energy availability for super smart grids and electric cars will absorb huge new infrastructure costs
- Materials availability for PV and long life reusable batteries may involve tricky geo-security considerations
- Training of a new green technology workforce will be slow and costly, and probably inequitable for
- Green growth will be a shallow island in the turbulent waves of non SD economies and societies with no audits

Young Adult Citizenship Initiative

- Provide a social wage on a voluntary basis for any 19 to 25 year old, otherwise unemployed, drawn from financial transactions and carbon levies
- Create local not for profit charities to enable local non SD economic activity to create pools of beneficial funds
- Offer a menu of volunteering: mentoring: work experience: training: and social enterprise innovation
- Create a Young Citizens Award on a basis of formal accreditation and gold, silver and bronze achievement

EU Network of Sustaining Landscapes

- Build upon the biosphere protection and the Natura 2000 networks to encompass distinctive whole landscapes
- Create sustaining landscape not for profit charities, financed by non sustaining land use contributions
- Build in payments by beneficiaries (water, energy insurance companies) for ecosystem services protected
- Offer stewardship payments to societies and cultures who add natural health and vitality to whole landscapes

Limits and losers

humans not exempt

social justice

redistribution

Operating within the
bounds of nature

Designing a safe,
secure and robust
society

measuring

monitoring

joy in planetary living

collective
responsibility

Principles of
Sustainable Development

evaluating

levying

integrated knowledge

personal
responsibility

self aware

Paying our way

Acting on best
science in precaution

Creating virtuous
governance

penalising

rewarding

wicked
problems

burden of
proof

prudent

empathetic
beneficence

Personal self esteem and
self confidence

The diagram consists of five ovals arranged in a circle. A central red oval is connected to four surrounding ovals: light blue (top-left), light green (top-right), light pink (bottom-left), and light purple (bottom-center). A yellow oval is positioned at the bottom-right, not connected to the central one. Each oval contains a specific goal or value.

Security from all domestic,
neighbourhood, and international
violence and abuse

Betterment and wellbeing
for everyone on
a healthy planet

Ensuring physical
and mental health

Offering opportunity
and hope

Creating trust and
virtue in democracy