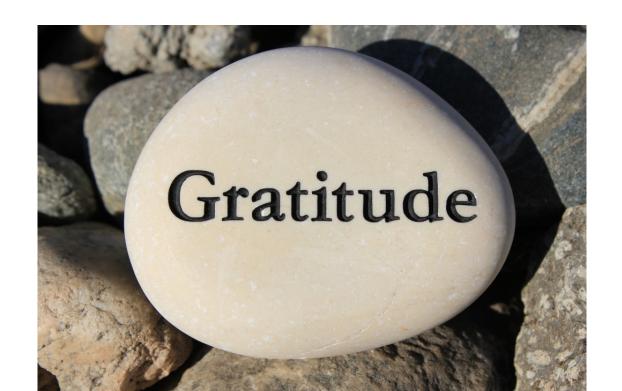
### What Is Planetary Health and Why Now?

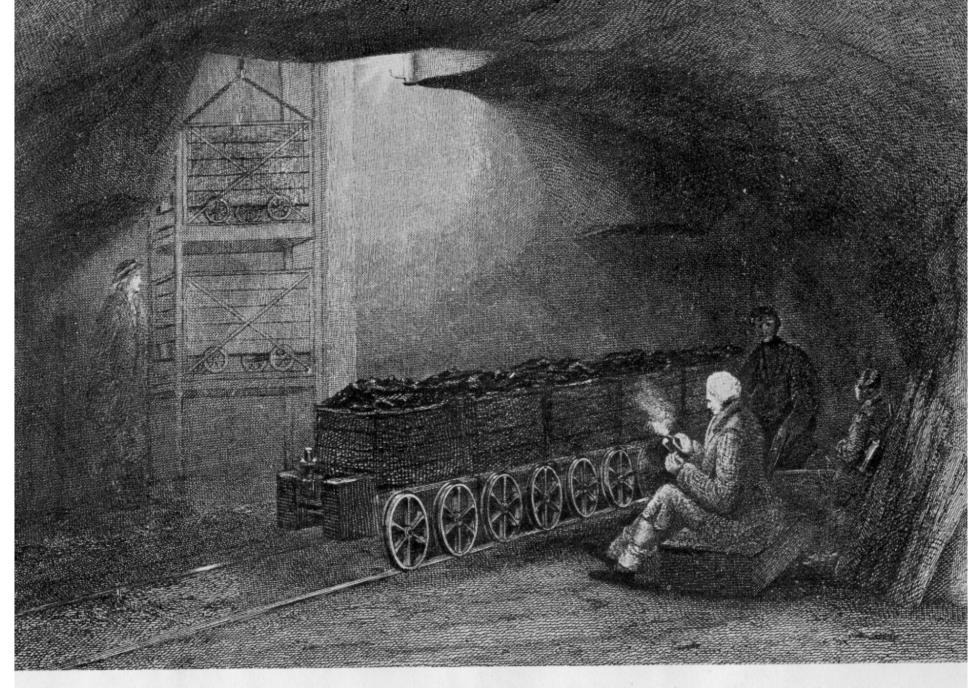
Planetary Health/ GeoHealth Conference
Boston
29 April 2017





Thanks to Gary Cohen, Mike Depledge, Andy Haines, Saskia Heijnen, Sam Myers, Steve Osofsky, and Taylor Ricketts for very helpful input.

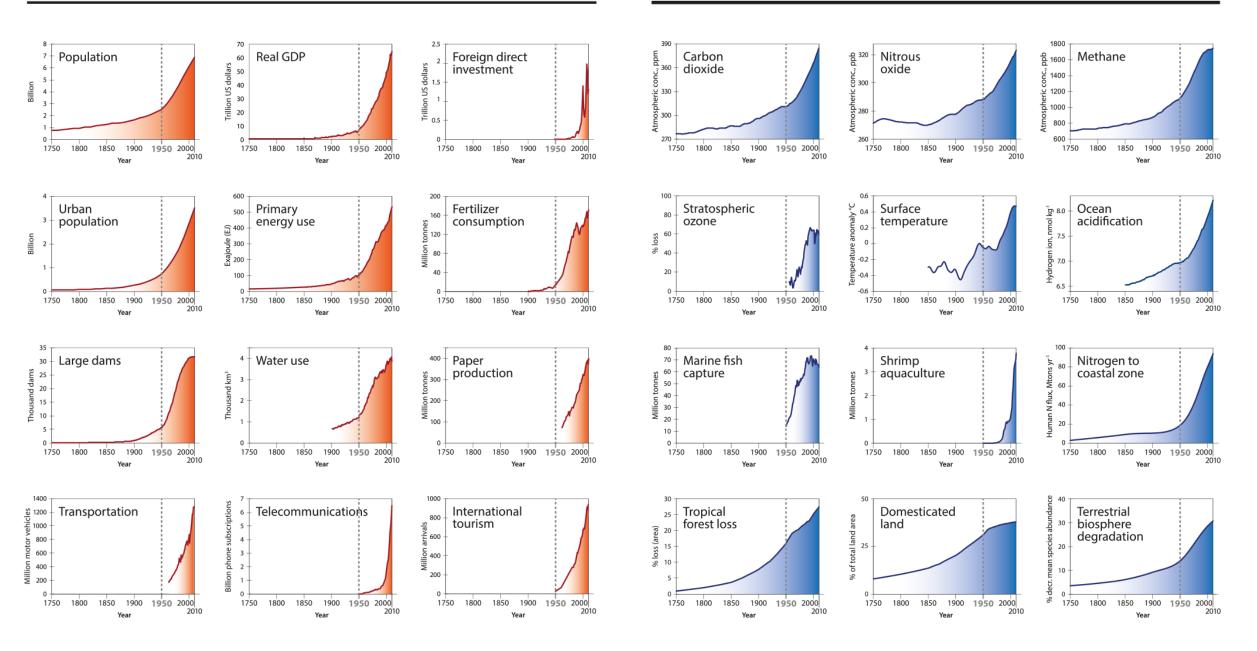




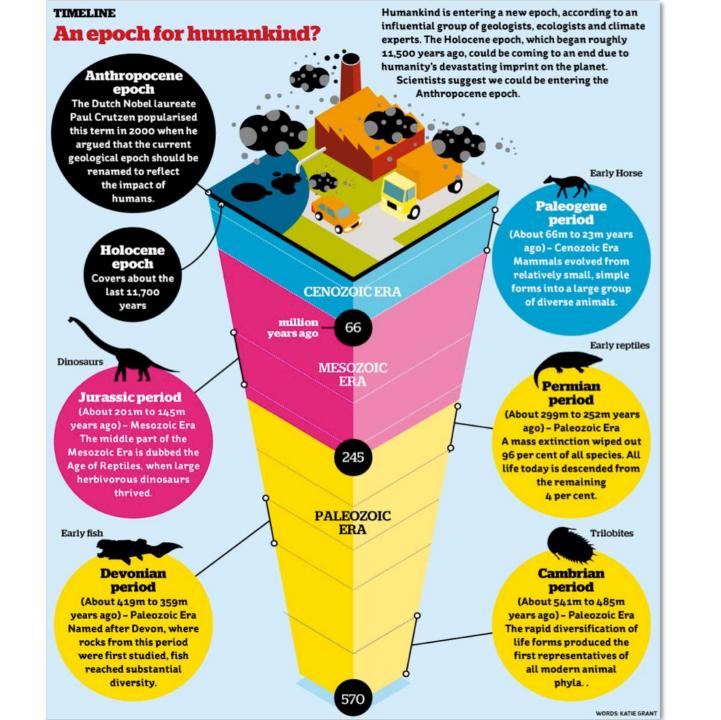
BOTTOM OF PIT SHAFT, 1860

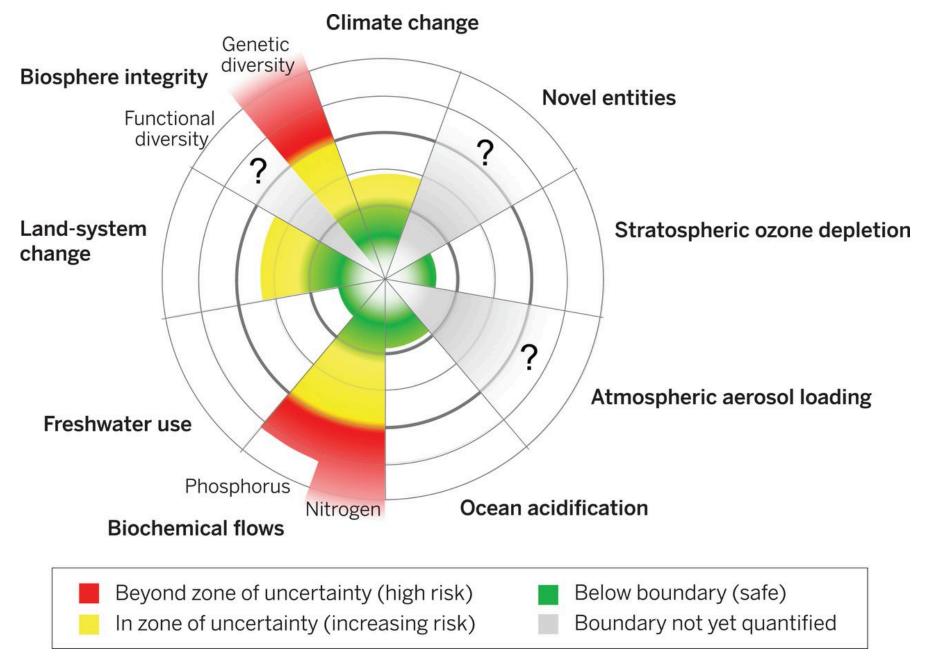


#### Earth system trends



Steffen et al. 2011. The Anthropocene: From global change to planetary stewardship. Ambio 40:739-761. Images from International Geosphere-Biosphere Program www.igbp.net







## What is Planetary Health?

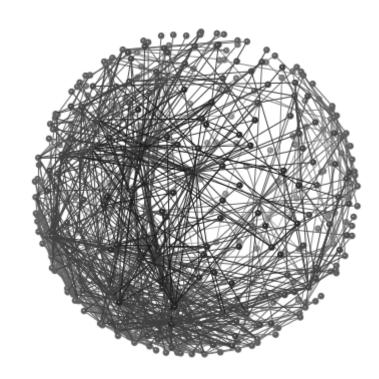
"Put simply, planetary health is the health of human civilization and the state of the natural systems on which it depends."



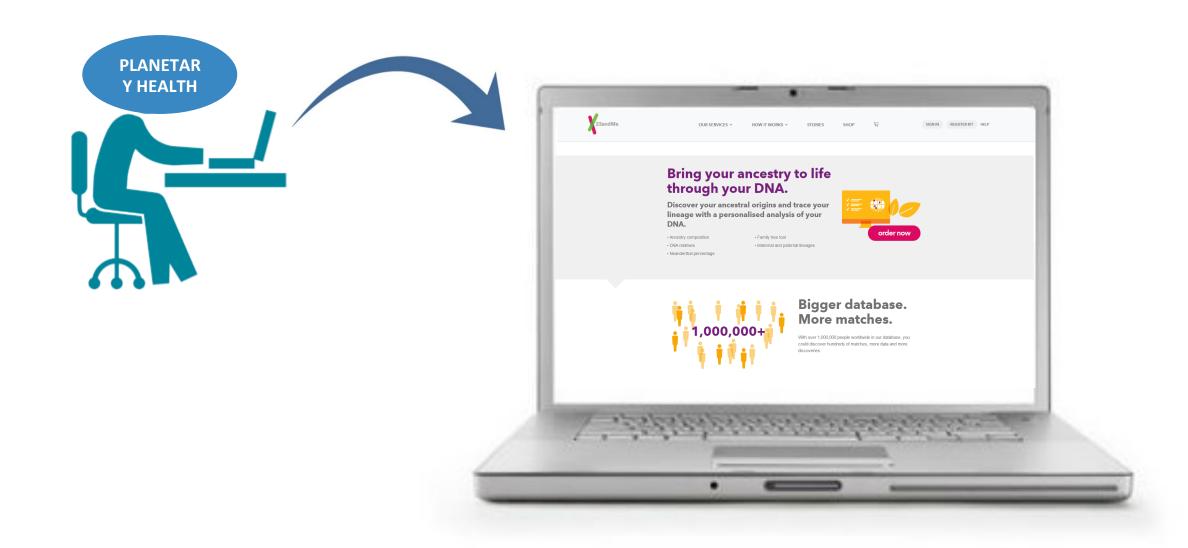
## What is Planetary Health?

Planetary Health is the systematic application to human health, from global to local scales, of the Four Laws of Ecology:

- 1. Everything is connected to everything else.
- 2. Everything must go somewhere.
- 3. Nature knows best.
- 4. There is no such thing as a free lunch.



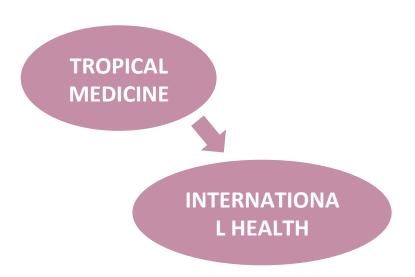
# The hunt for ancestry



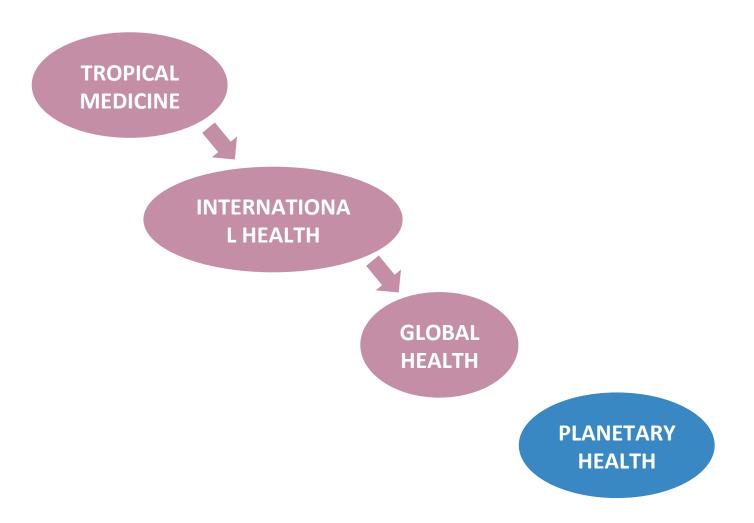


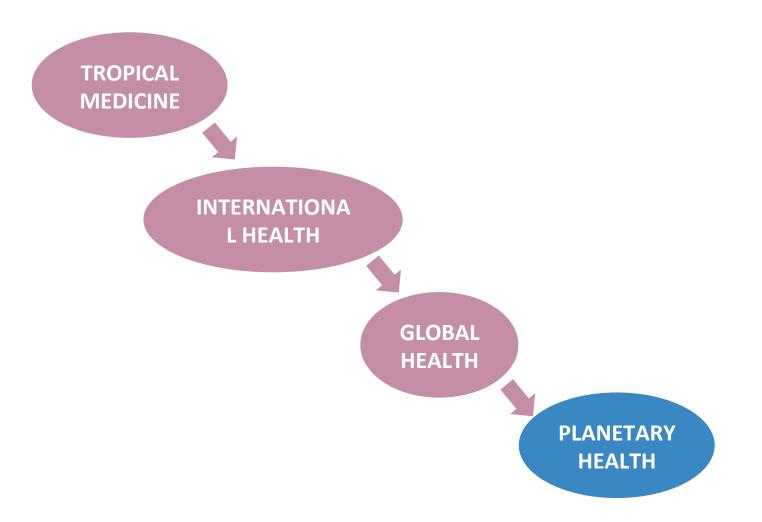


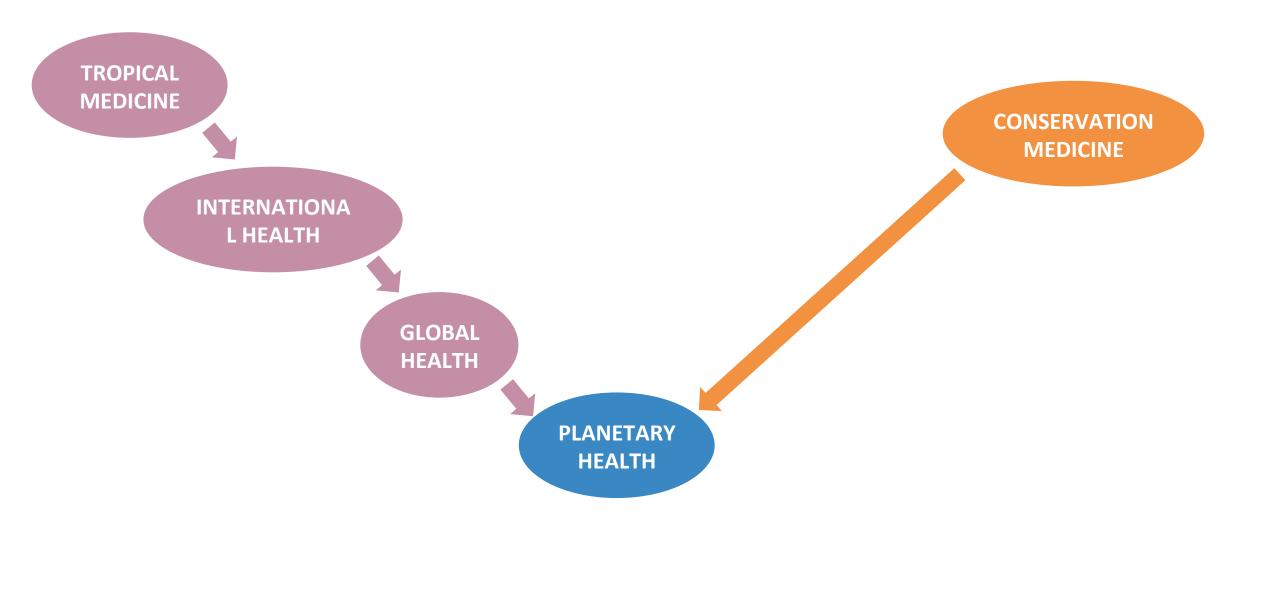


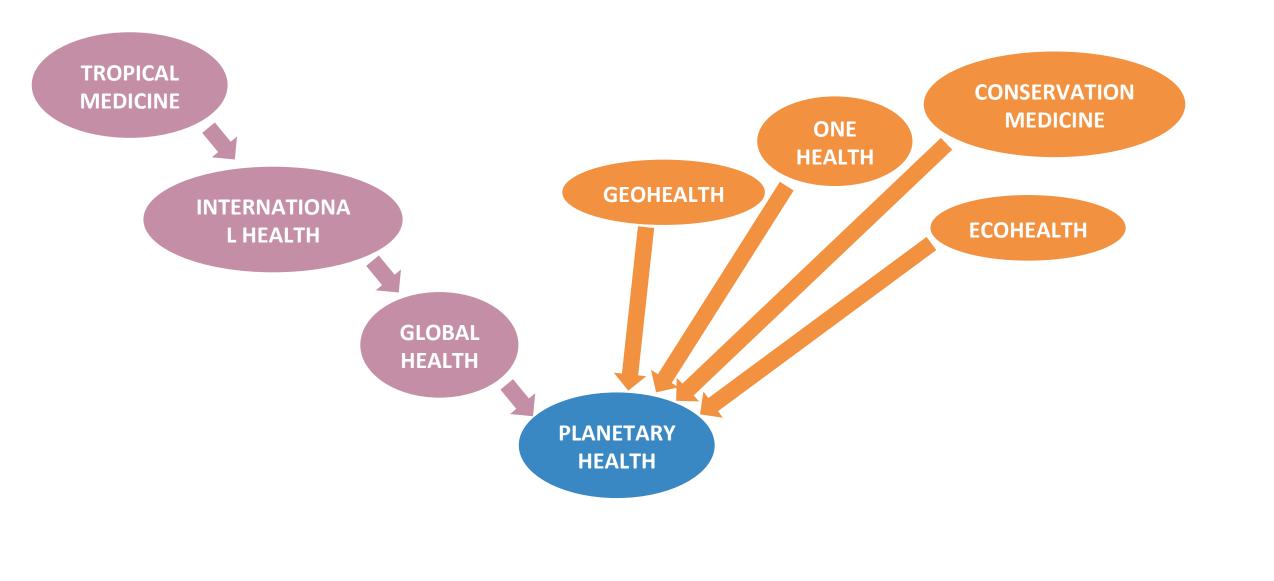


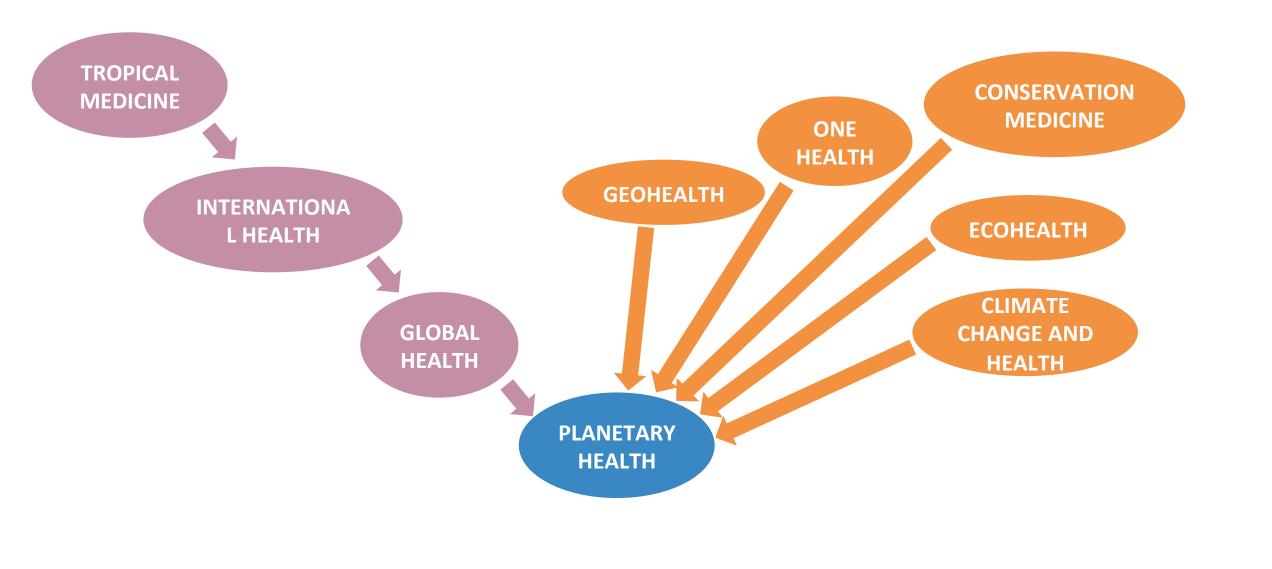


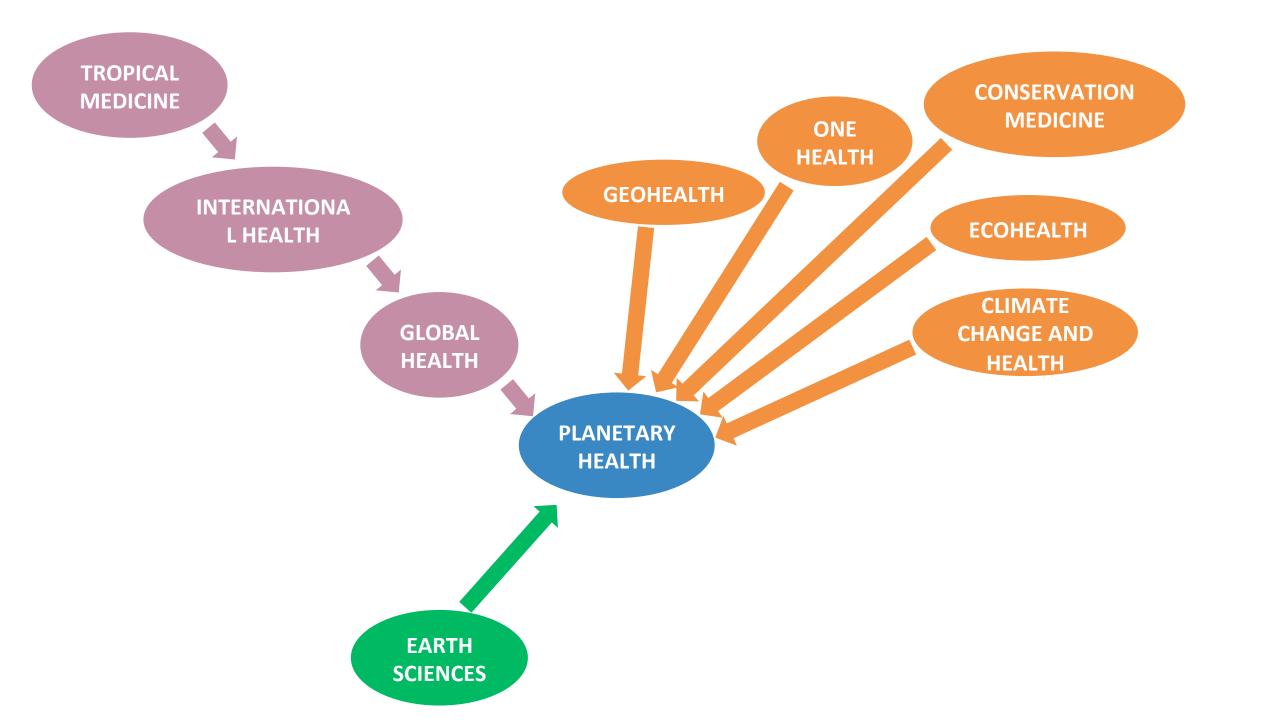


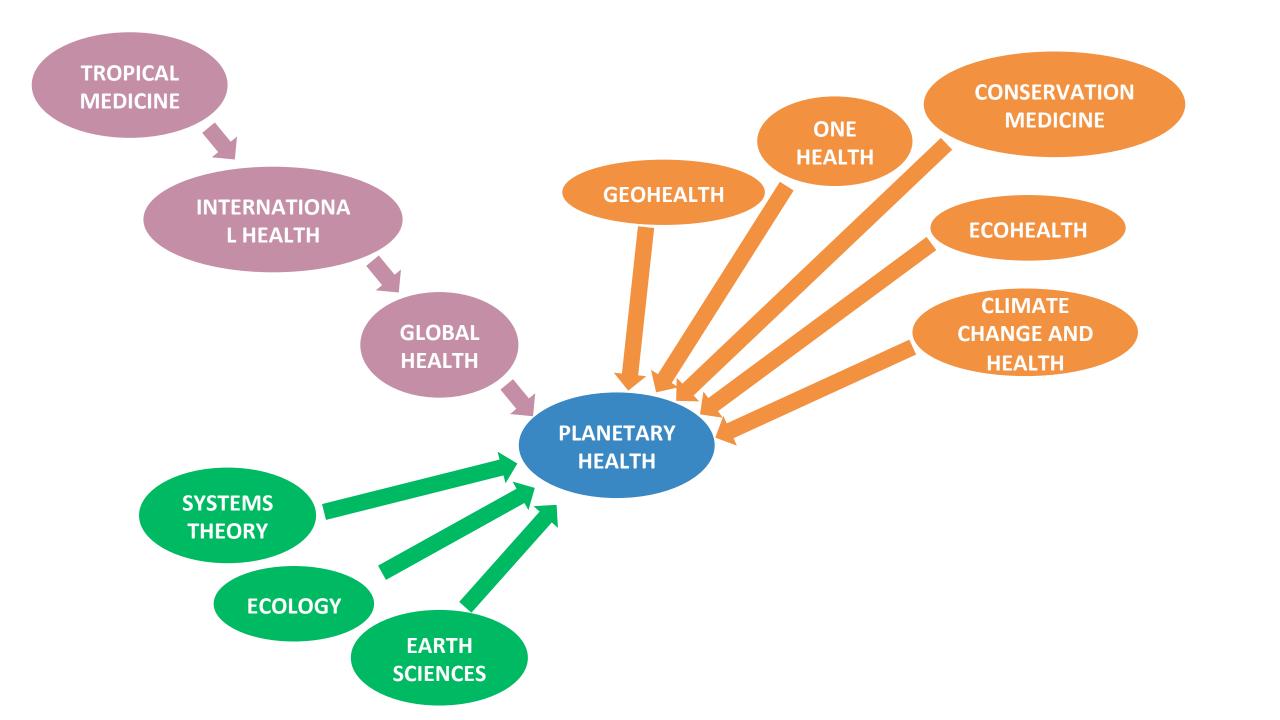


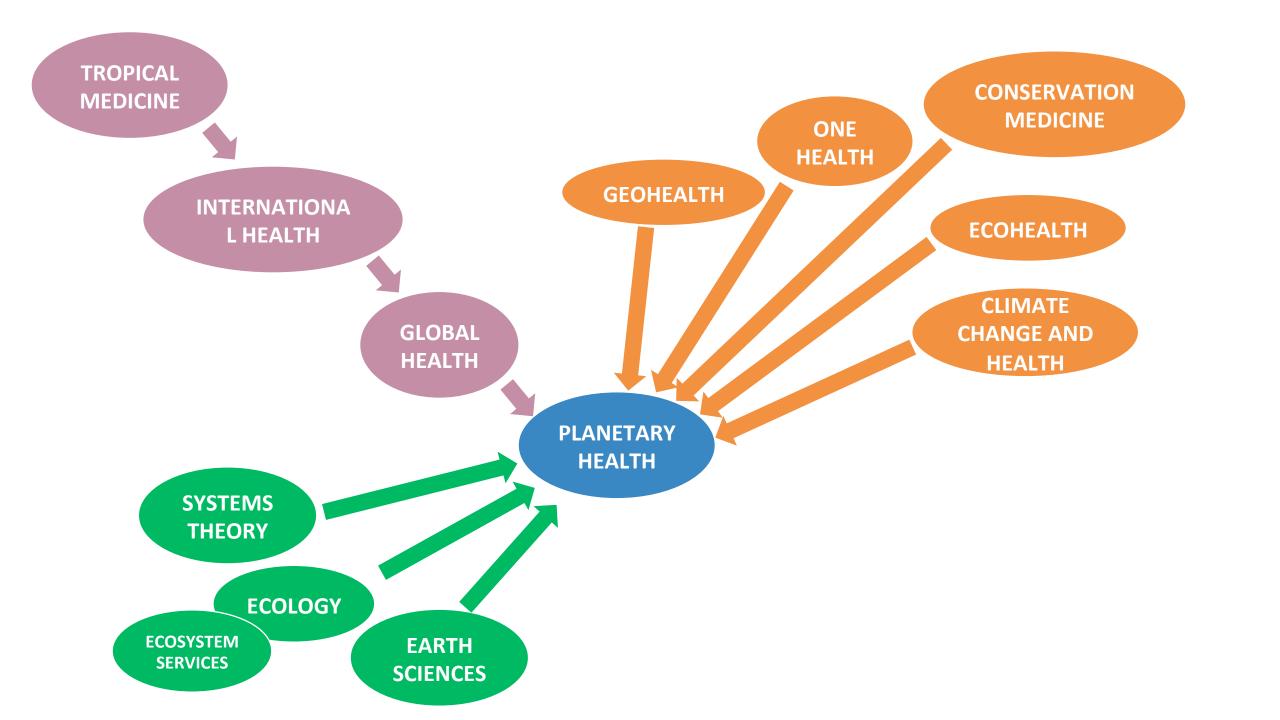


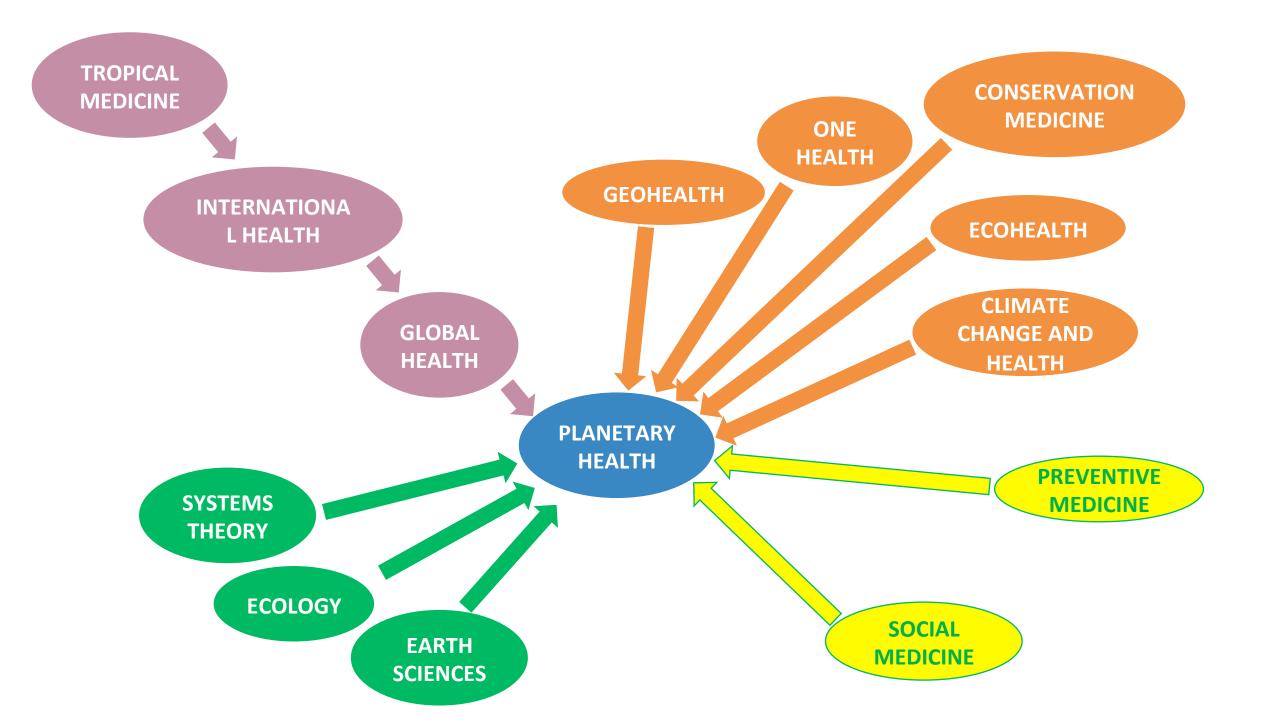


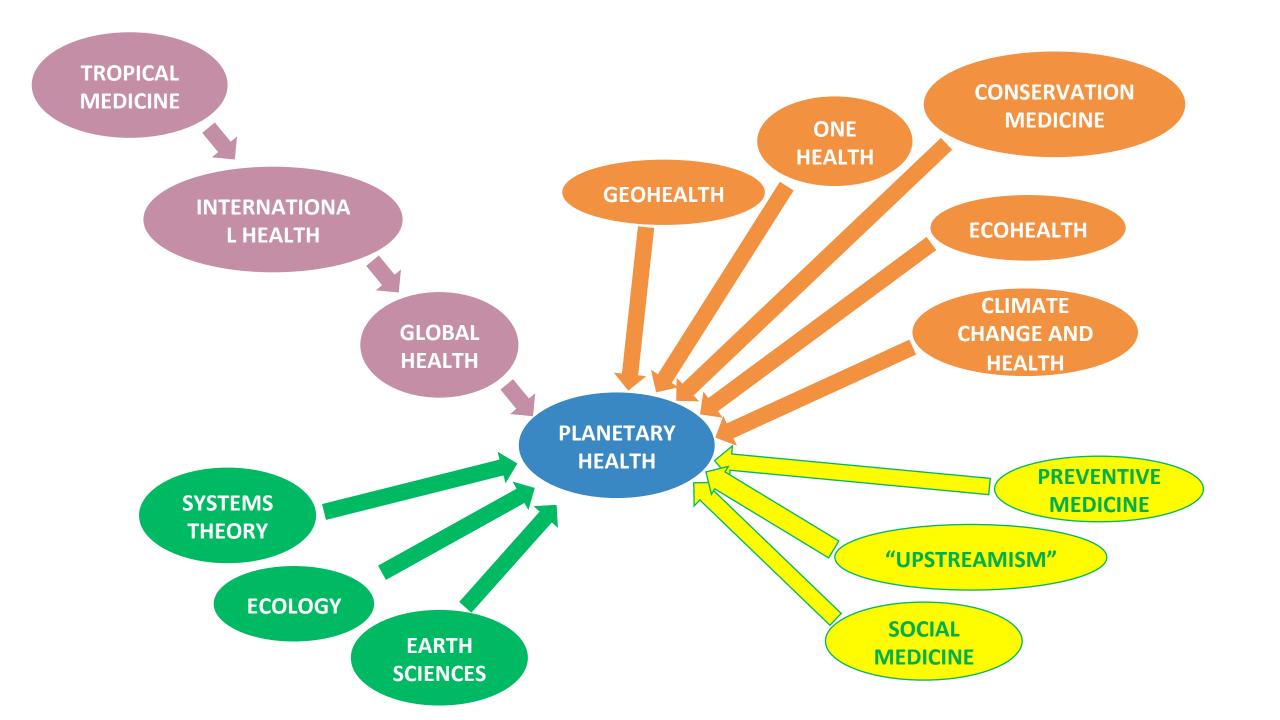


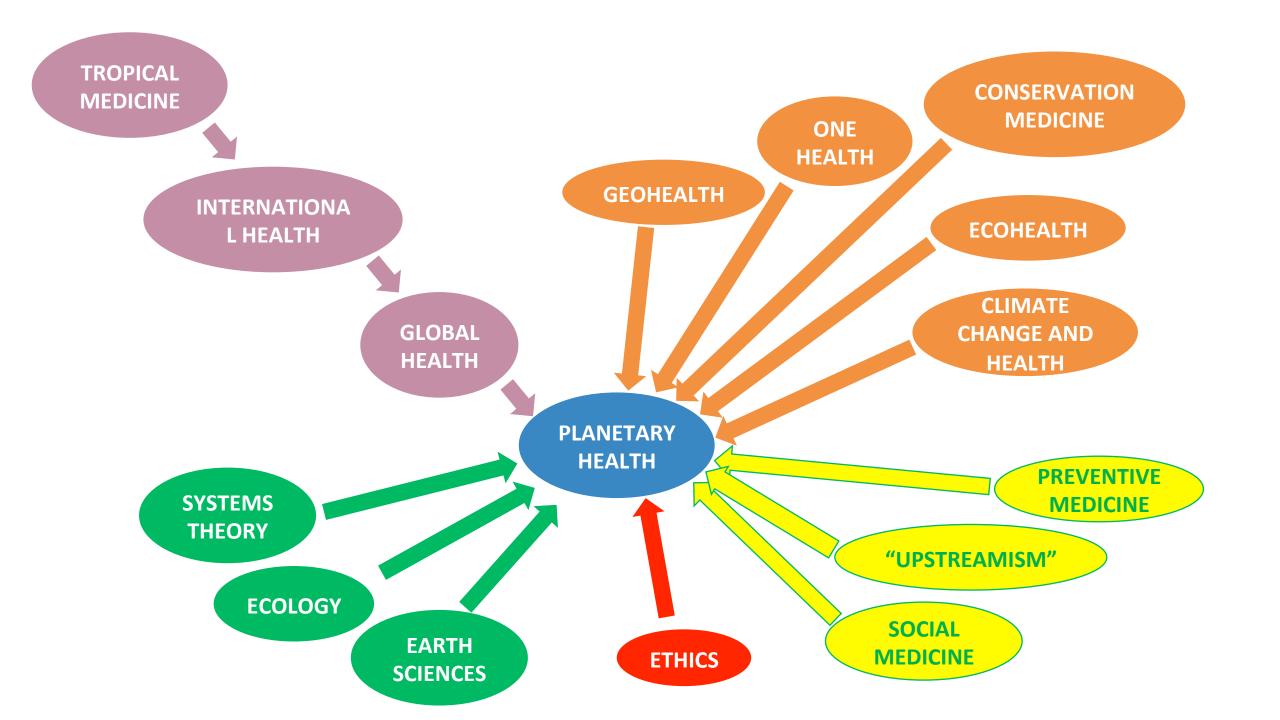












## Planetary health is...

- 1. A field
- 2. A scientific paradigm
- 3. A policy framework
- 4. A communication strategy
- 5. A moral imperative

## Planetary health: A field

- A **field** is a set of institutional arrangements
  - Journals, meetings, professional associations, jargon

### Observations:

- This field functions through other fields (agriculture, urban planning, etc.)
- This field has a high level of conviviality
- This field is young and remains fragmented

### Questions:

- Do we need to consolidate?
- Do we need a consensus statement of identity and direction in the field? A textbook?
- How to structure meetings?
- How to cultivate funds for <u>research</u> and <u>training?</u>
- How to define and facilitate career pathways?

## Planetary health: A scientific paradigm

- "Nothing in biology makes sense except in the light of evolution." (Dobzhansky)
- A Planetary Health version: "Nothing in human health, well-being, thriving, or survival makes sense except in the light of Planetary Health."
- Features: Systems thinking, complexity, surprises and uncertainty, ecological principles, probabilistic thinking, multiple temporal and spatial scales, deep cross-disciplinarity,.
- Observation:
  - Universities not well structured to tackle such problems
- Questions:
  - Do we need more systematic reviews? A Cochrane-like process?
  - Do we need a research agenda?

## Planetary health: A policy framework

- Scientific input into policy must be...
  - Anchored in the needs of decision-makers
  - Anchored in the perspectives of people and communities

### Observations:

- Highest impact when applied to specific challenges: hunger, transportation, energy generation, air pollution, etc.
- Approaches will differ based on spatial scale, short-term vs long-term, North vs South

### • Question:

• Should we be distilling data into information (indicators)?

## Planetary health: A communication strategy

• Planetary health: A way to frame and communicate reality in the Anthropocene.

#### Observations:

- "Planetary Health" is a wonky term.
- Complexity confuses and numbers numb. But stories stick and pictures persist.

### • Questions:

- Who are the audiences?
- What are our key (scientific and values) messages?
- What are the most compelling personal journeys, success stories and inspiring anecdotes?
- Should speaker training be a part of the agenda?

## Planetary health: A moral imperative

### • Starting points:

- Equity
- Bioethics principles: Autonomy, justice, beneficence, non-maleficence

### An ethics for the Anthropocene?

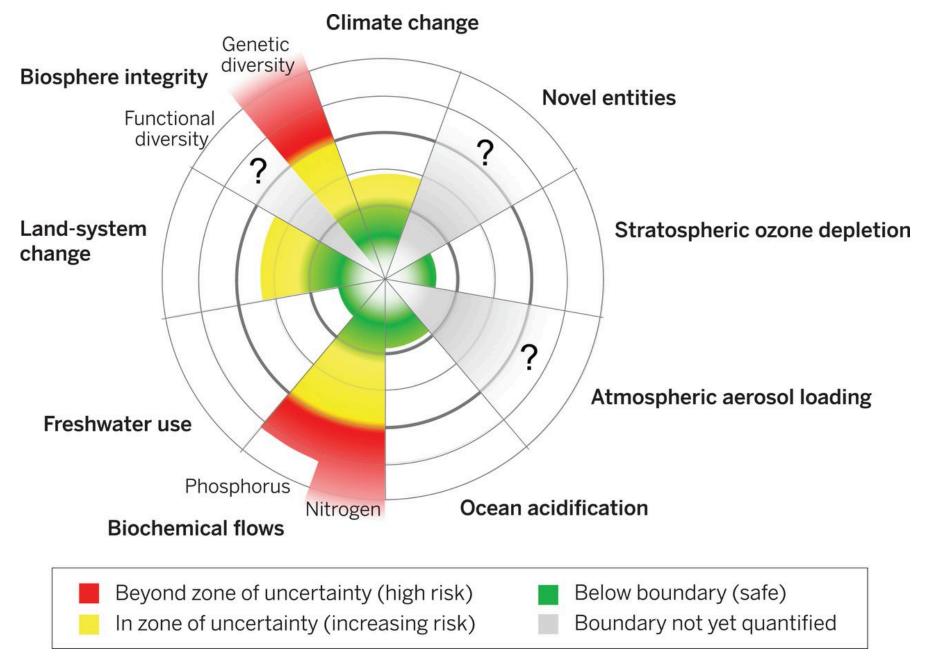
- "Human prosperity in a flourishing web of life"1
- Human civilization is a precious and beautiful thing, and when it is threatened, we are called to rescue it.

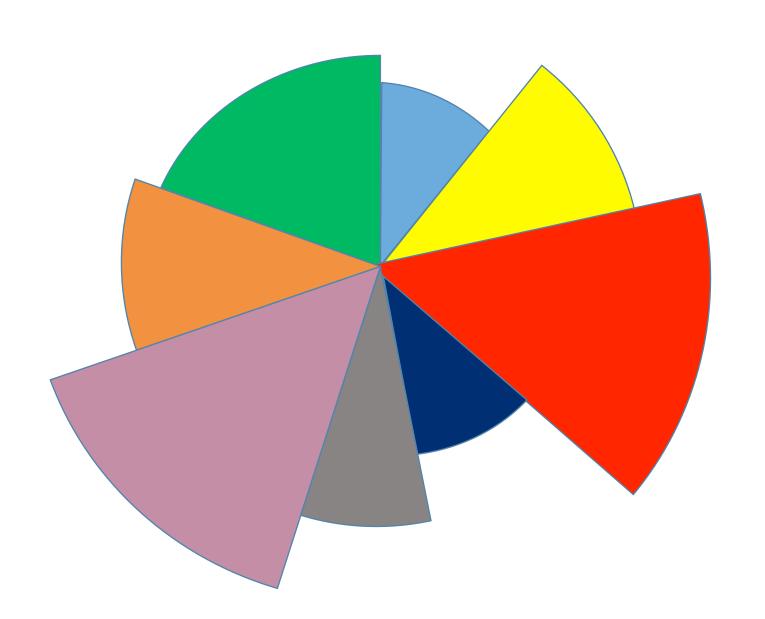
#### Observation:

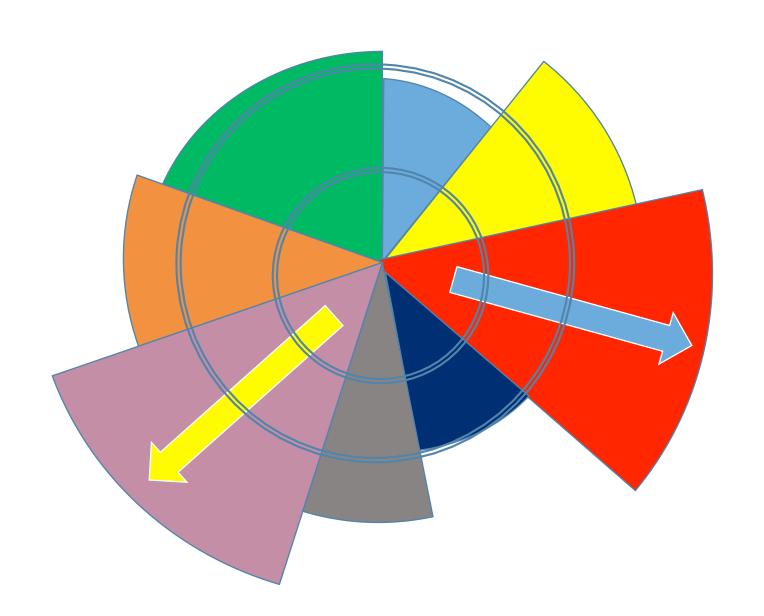
 The language of passion and moral conviction is a far cry from the measured, careful discourse of scientific meetings

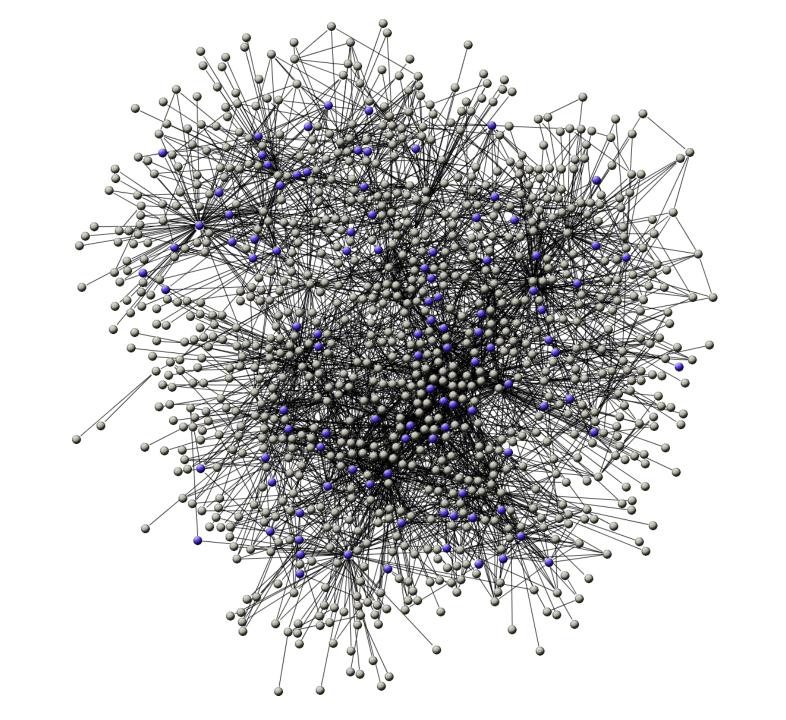
### Questions:

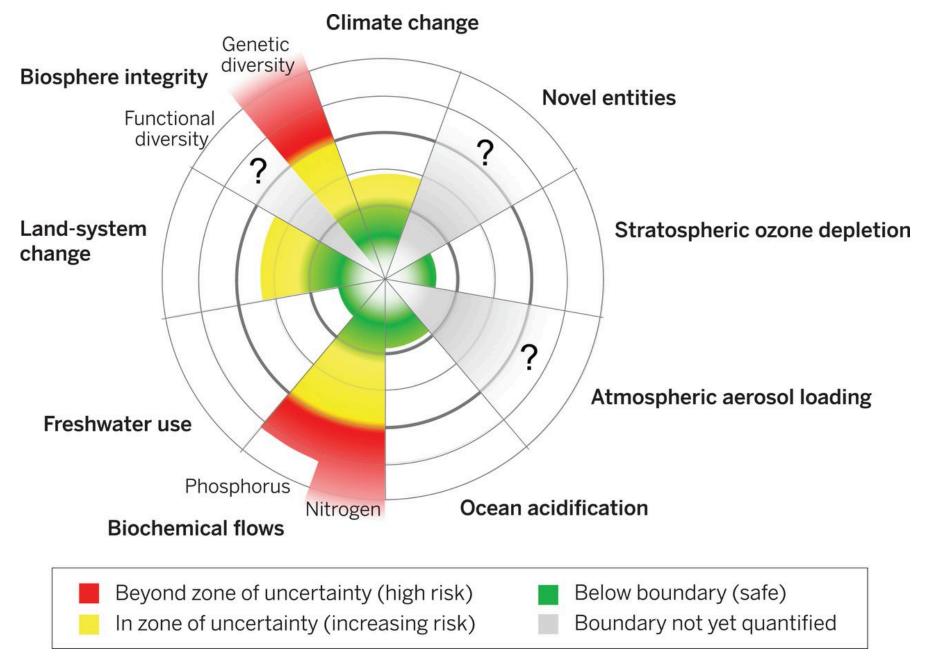
- How do we give ourselves permission, and learn, to engage in moral discourse?
- How do we build alliances with faith communities?

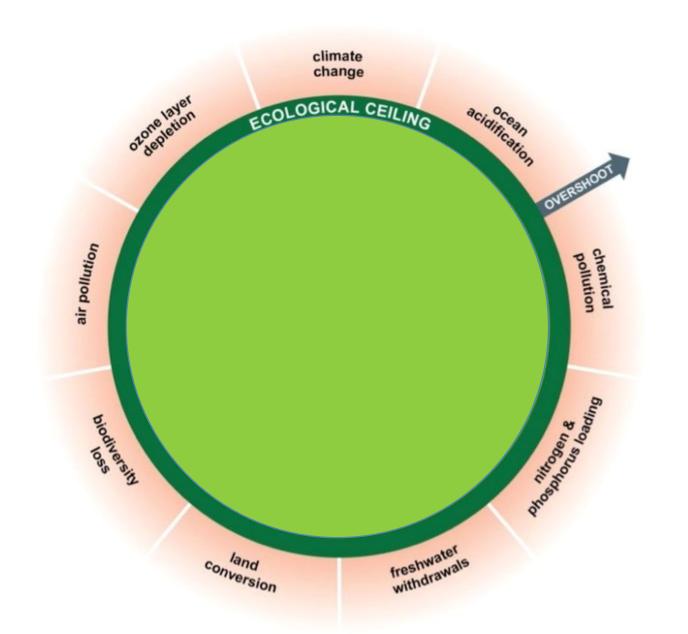




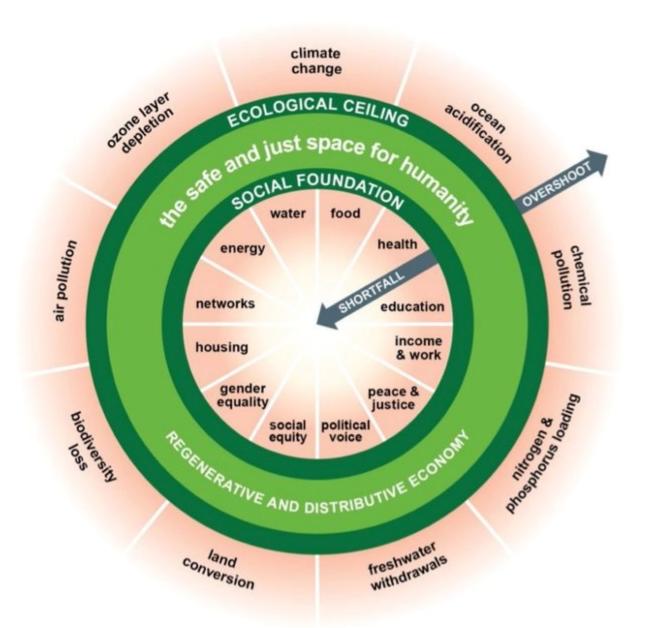


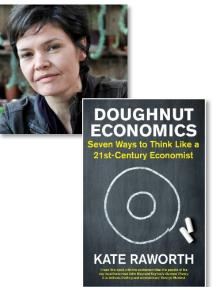












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Thank you!