

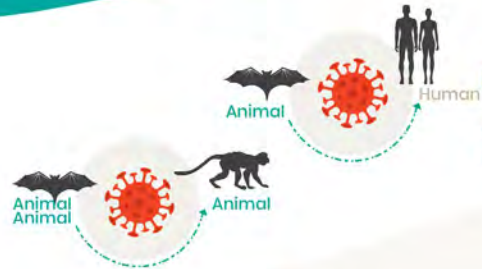
Resilience through Impact Assessment and Leadership

42nd Annual Conference
International Association
for Impact Assessment

*Prof. Tan Sri Dr. Jemilah
Mahmood
8 May 2023*



The pathway of epidemics



4. Risk of zoonosis

transmission from animal to animal, from animal to human and from human to human

3. Animal markets

crowding and closeness between species

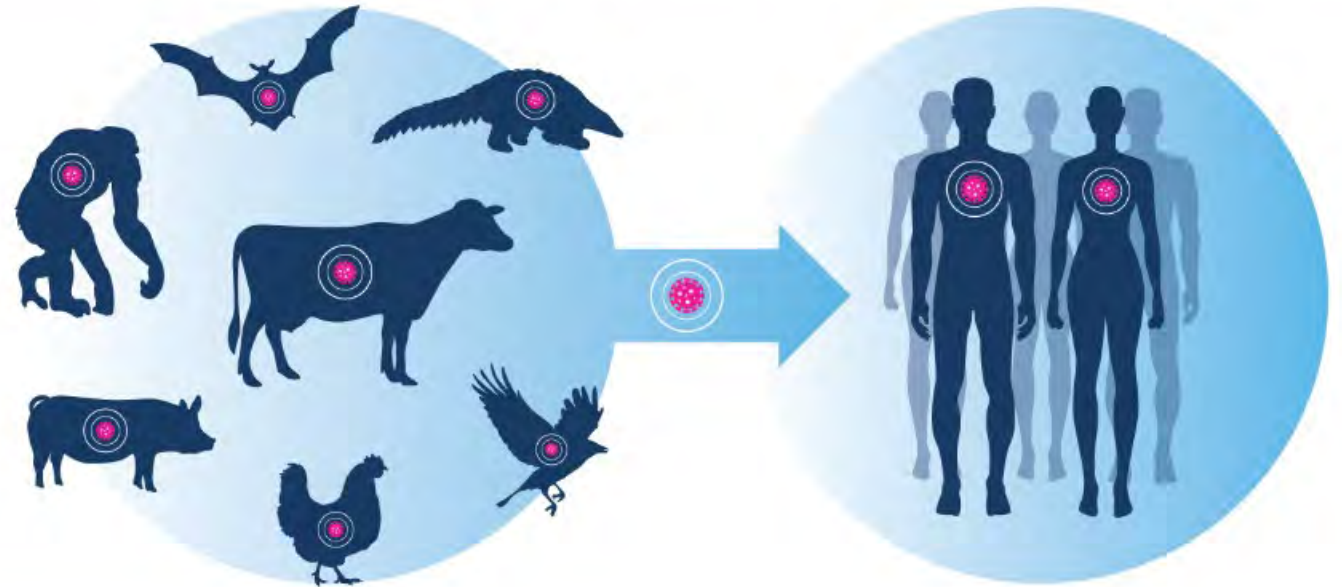


2. Species collecting and trafficking

1. Deforestation



Zoonoses such as COVID-19 are diseases that are transmitted from animals to humans



75% of newly emerging infectious diseases are zoonoses

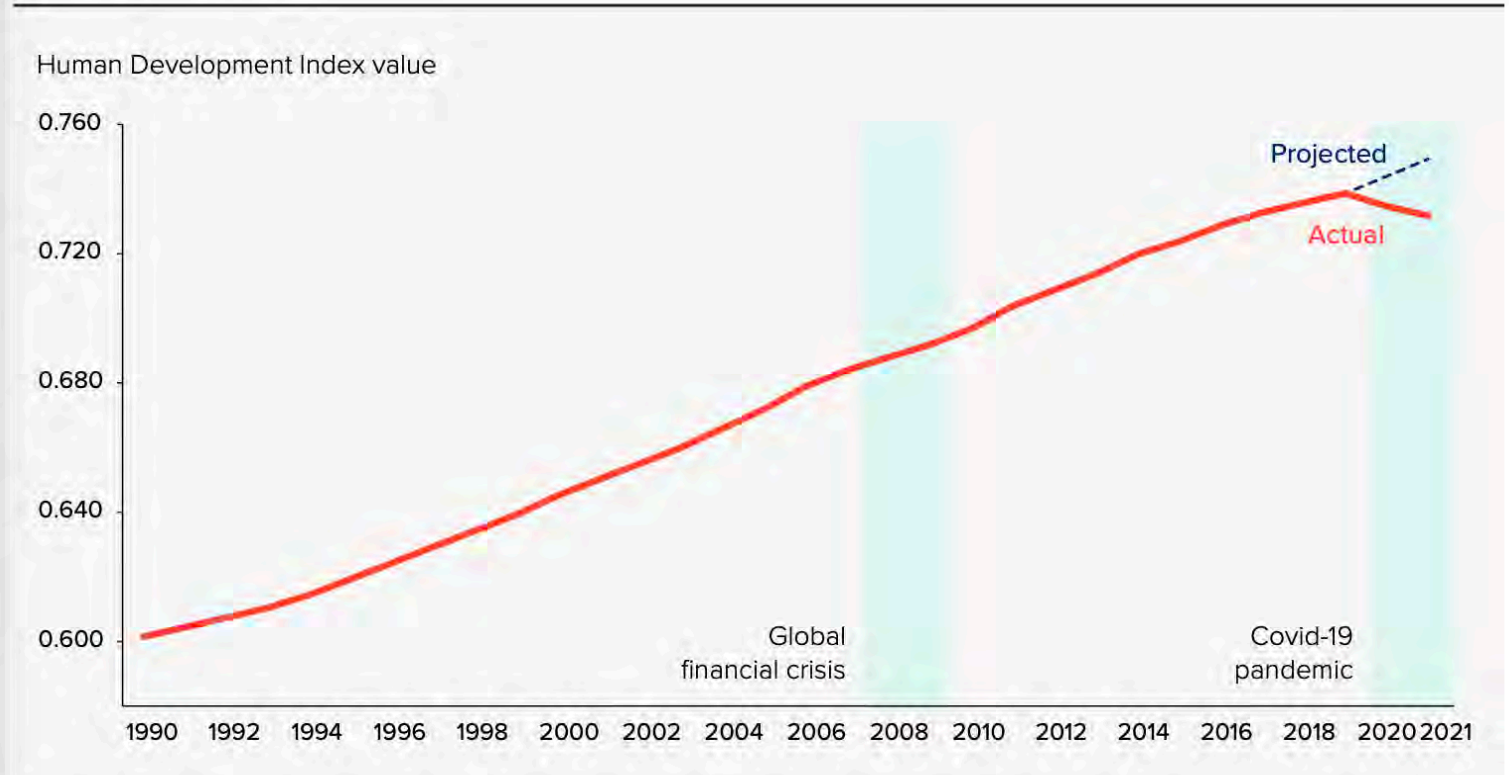
60% of infectious diseases in humans are spread from animals

Zoonotic diseases are responsible for an estimated **2.5 billion cases of illness** and **2.7 million deaths** worldwide, each year

The past 2 years have erased the gains of the 5 years prior.



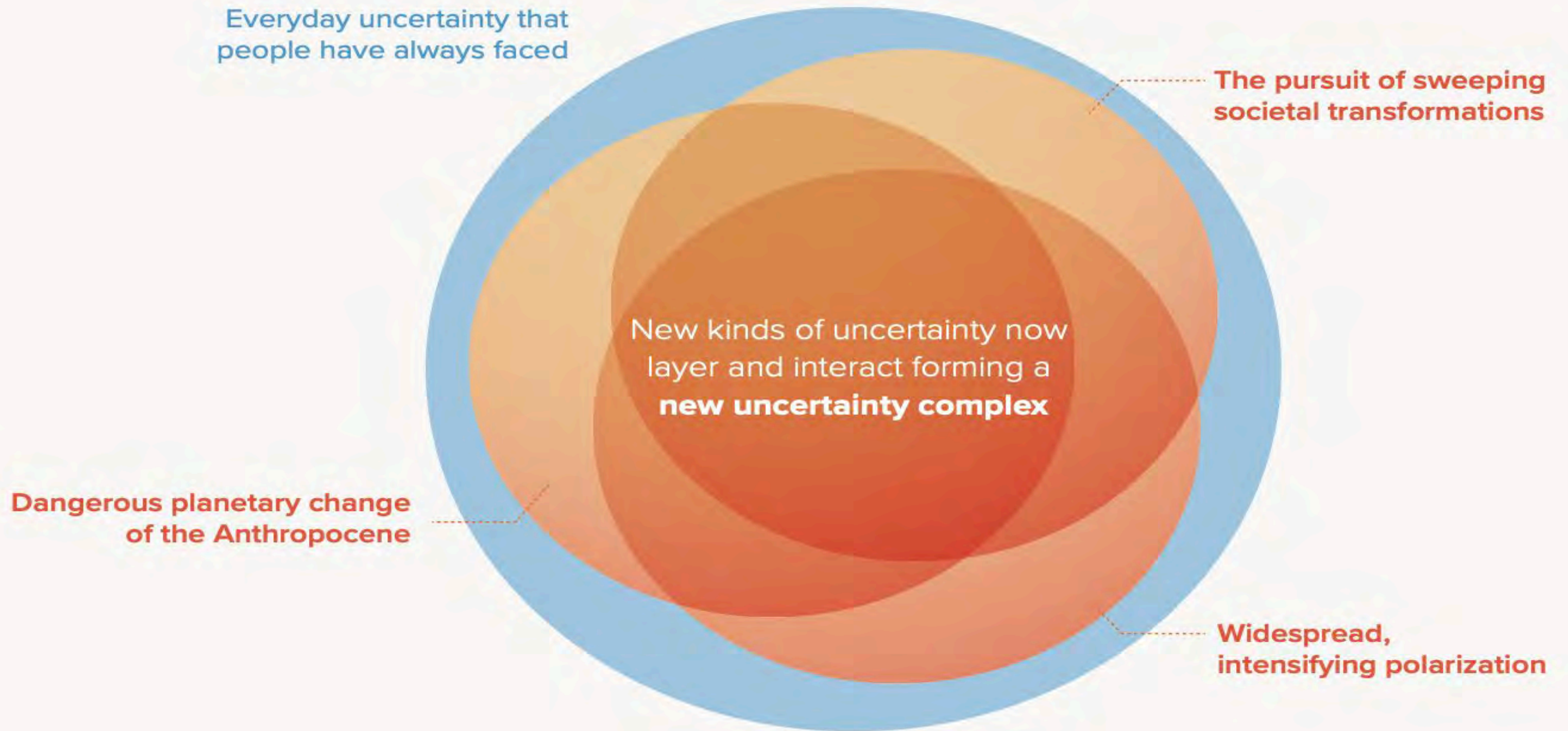
Figure 2 The global Human Development Index value has declined two years in a row, erasing the gains of the preceding five years



Note: The period of the global financial crisis is indicative.

Source: Human Development Report Office calculations based on data from Barro and Lee (2018), IMF (2021c, 2022), UNDESA (2022a, 2022b), UNESCO Institute for Statistics (2022), UNSD (2022) and World Bank (2022c).

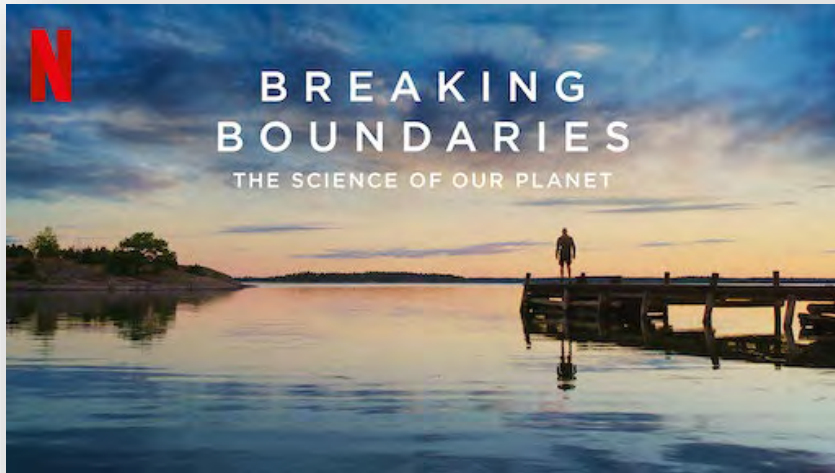
Figure 1 A new uncertainty complex is emerging



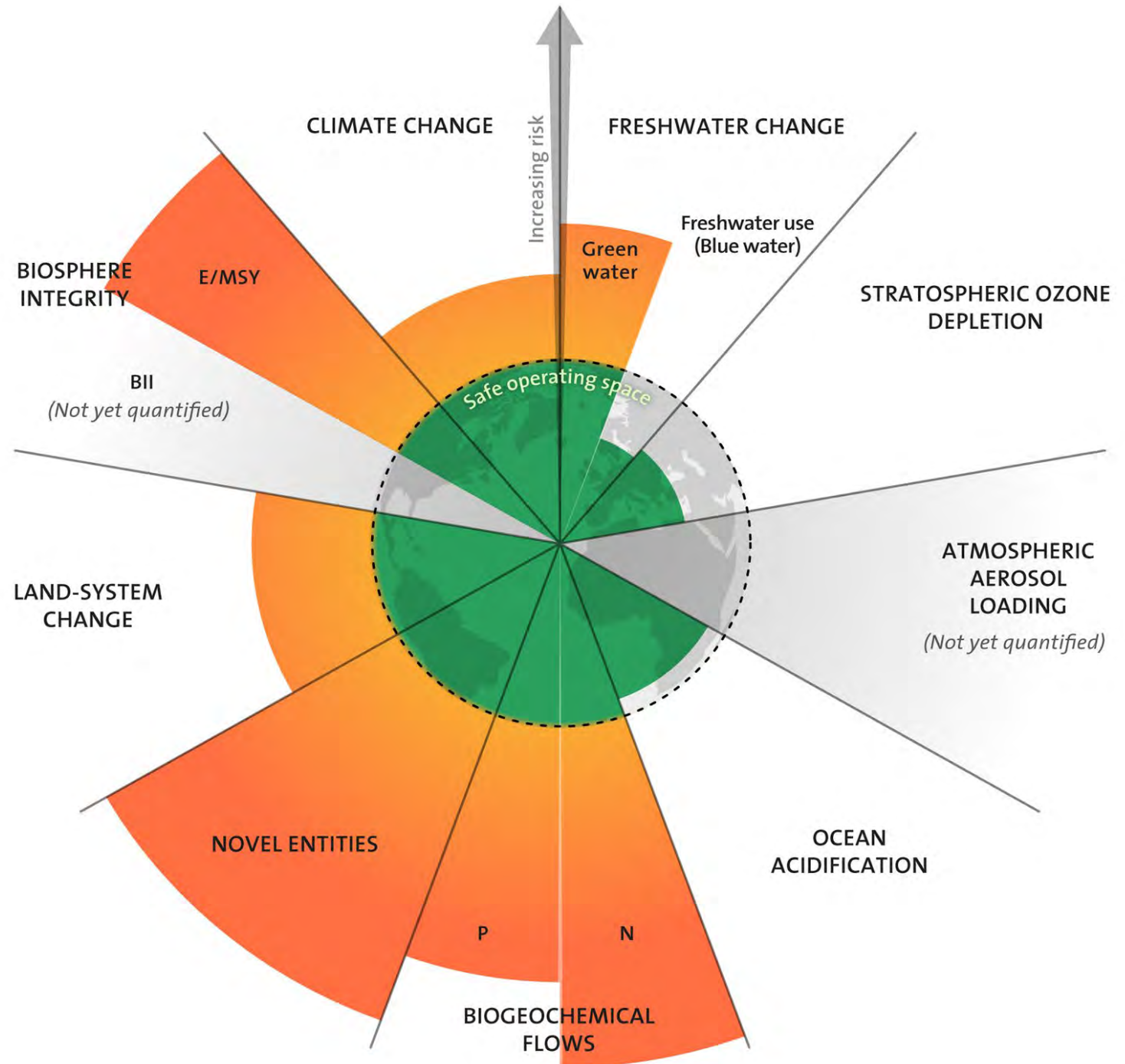
Source: Human Development Report Office.

Protecting planetary boundaries

6 out of 9 have been breached



(Stockholm Resilience Centre, 2022)



Global temperature raising, warmer ocean, shrinkage of ice sheets, retreating of glacier, rises of sea level, heatwaves, storms, and drought

Loss of wildlife population, monocrop

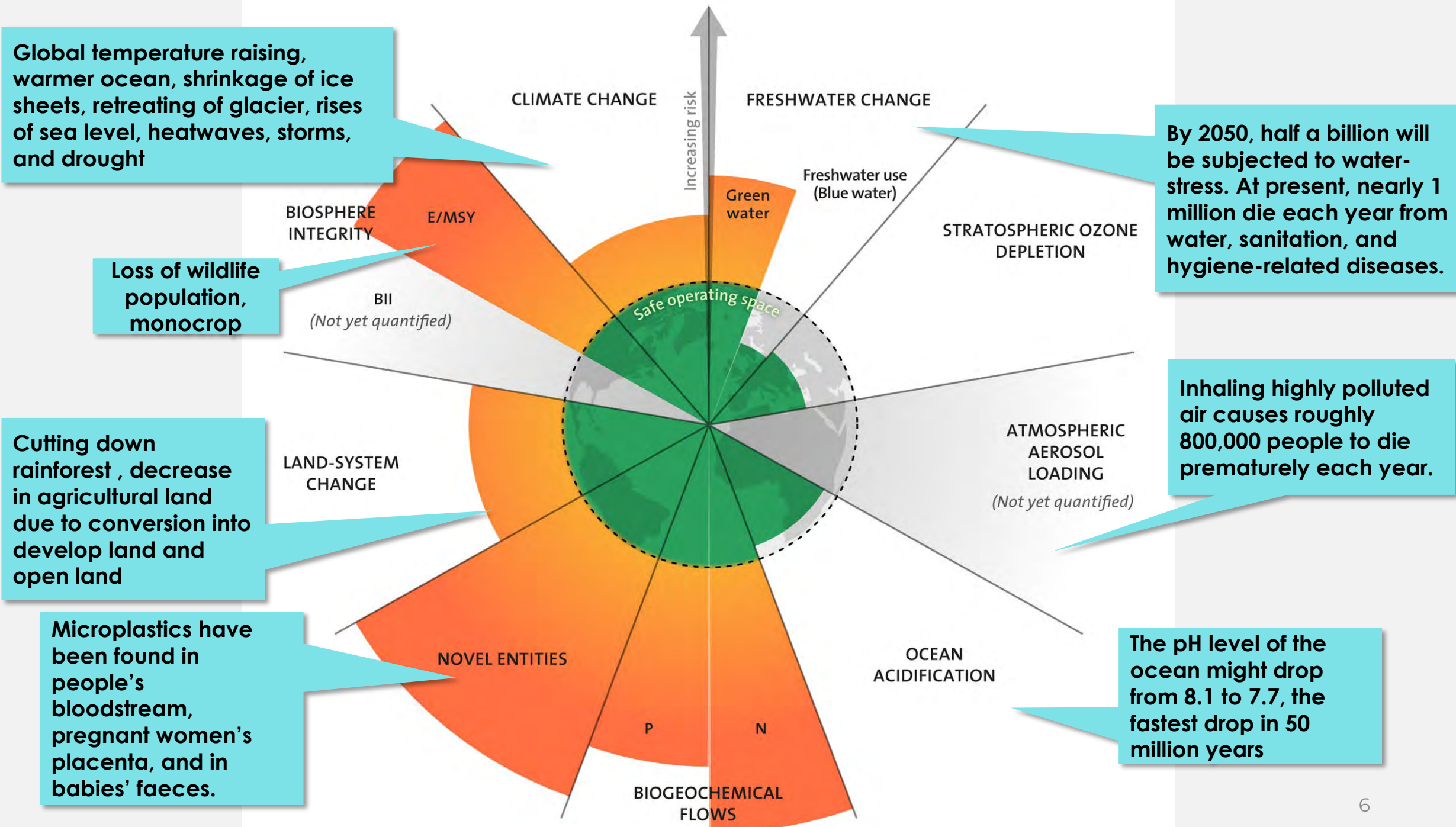
Cutting down rainforest, decrease in agricultural land due to conversion into develop land and open land

Microplastics have been found in people's bloodstream, pregnant women's placenta, and in babies' faeces.

By 2050, half a billion will be subjected to water-stress. At present, nearly 1 million die each year from water, sanitation, and hygiene-related diseases.

Inhaling highly polluted air causes roughly 800,000 people to die prematurely each year.

The pH level of the ocean might drop from 8.1 to 7.7, the fastest drop in 50 million years



The Rockefeller Foundation–Lancet Commission on planetary health

Safeguarding human health in the Anthropocene epoch:
report of The Rockefeller Foundation–Lancet Commission on planetary health



PLANETARY HEALTH

“the health of human civilization and the state of the natural systems on which it depends”
Lancet-Rockefeller Commission, 2015

“the international and interdisciplinary field focused on characterizing and addressing the human health impacts of global environmental change”
Planetary Health Alliance, 2019

Social, Environmental, Health Impact Assessment (SEHIA)

01

Integrated approach to impact assessments

02

Applying interconnectedness of planetary health





Floods



Population displacement



Malaria and other infectious diseases

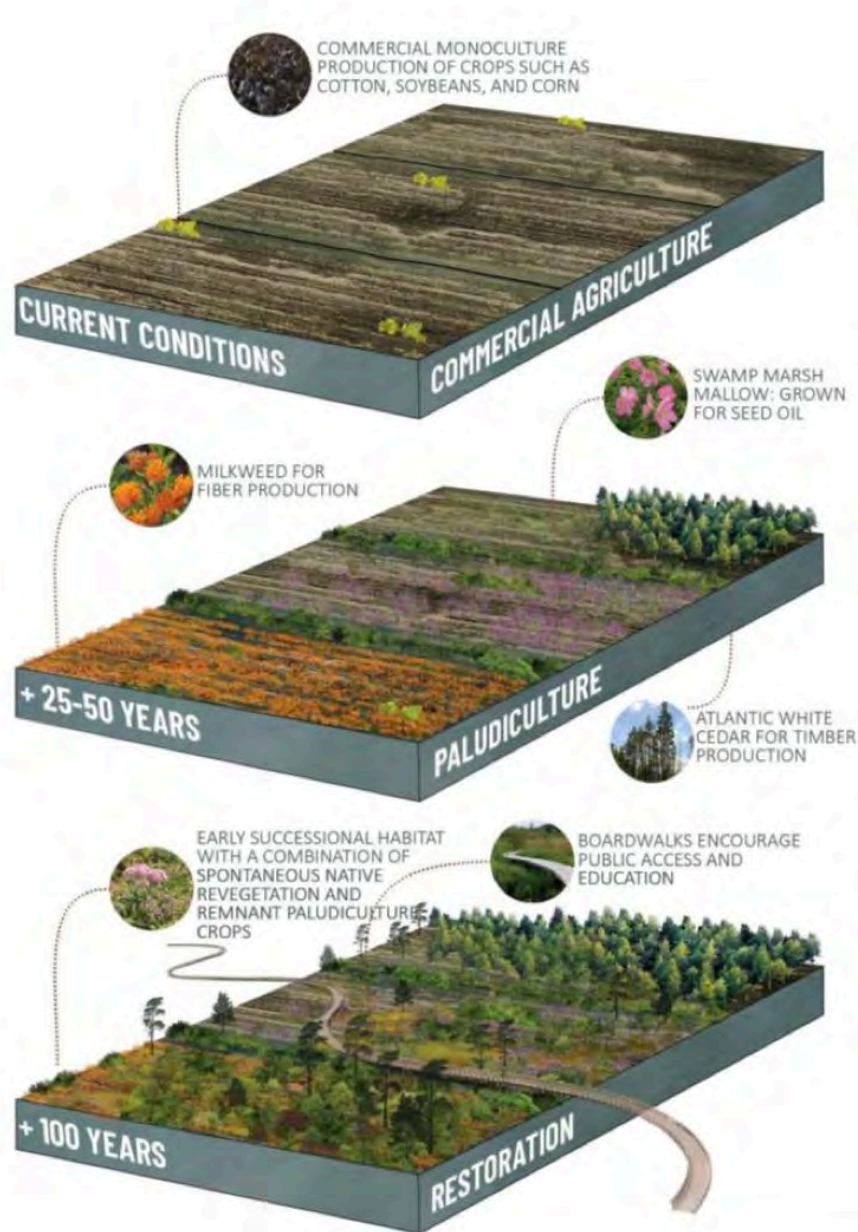


Water-borne diarrheal diseases

Germany's transformation of peatlands

INTACT PEATLANDS

Only 2% of German peatlands are still pristine.

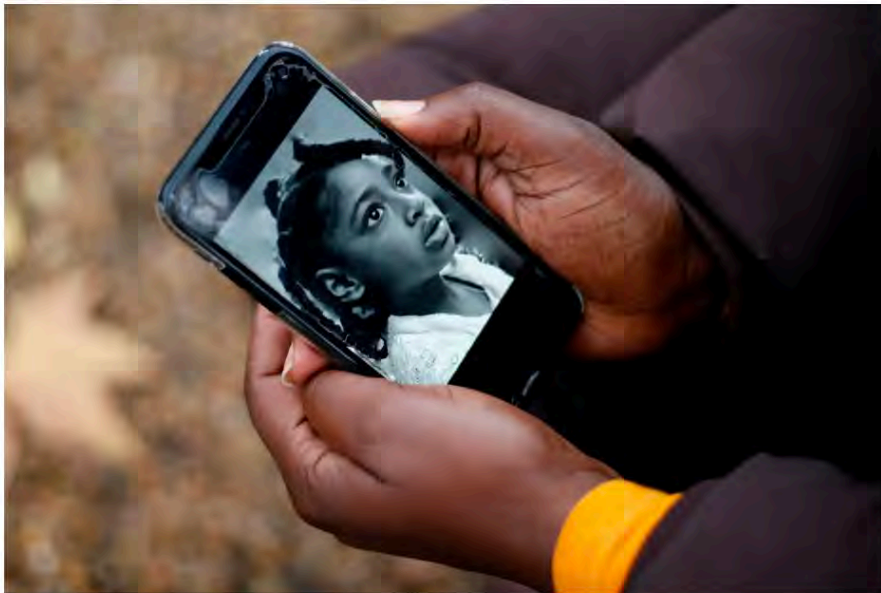




In Landmark Ruling, Air Pollution Recorded as a Cause of Death for British Girl

Legal and environmental experts hailed a coroner's ruling that, for the first time in Britain, directly linked a specific person's death to air pollution.

Give this article



Ella Adoo-Kissi-Debrah in a photo shown by her mother, Rosamund. Hollie Adams/Agence France-Presse — Getty Images

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Air pollution

Ella Kissi-Debrah: how a mother's fight for justice may help prevent other air pollution deaths

Landmark ruling that toxic fumes killed nine-year-old Londoner follows long campaign for truth



Ella Kissi-Debrah died in February 2013 after a severe asthma attack. Photograph: Hollie Adams/AFP/Getty Images



“ We should not underestimate ourselves, because if lots of individuals go together then we can accomplish almost anything. ”

GRETA THUNBERG

Swedish environmental activist