University Leadership in Advancing

Planetary Health

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http://www.businessinsider.com/what-planetary-health-really-means-2015-7

The Rockefeller Foundation-Lancet Commission on planetary health

The Lancet Commissions



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

Sarah Whitmee, Andy Haines, Chris Beyrer, Frederick Boltz, Anthony G Capon, Braulio Ferreira de Souza Dias, Alex Ezeh, Howard Frumkin, Peng Gong, Peter Head, Richard Horton, Georgina M Mace, Robert Marten, Samuel S Myers, Sania Nishtar, Steven A Osofsky, Subhrendu K Pattanayak, Montira J Pongsiri, Cristina Romanelli, Agnes Soucat, Jeanette Vega, Derek Yach

Executive summary

Far-reaching changes to the structure and function of the Earth's natural systems represent a growing threat to human health. And yet, global health has mainly improved as these changes have gathered pace. What is the explanation? As a Commission, we are deeply concerned that the explanation is straightforward and sobering: we have been mortgaging the health of future generations to realise economic and development gains in the present. By

research and funding, together with an unwillingness or Lancet 2015; 386: 1973-2028 inability to deal with uncertainty within decision making frameworks. Thirdly, implementation failures (governance July 16, 2015 challenges), such as how governments and institutions delay recognition and responses to threats, especially when faced with uncertainties, pooled common resources, and time lags between action and effect.

Although better evidence is needed to underpin thelancet.com on appropriate policies than is available at present, this

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This online publication has been corrected. The corrected version first appeared at August 17, 2015

It is time for a new discipline.



THE LANCET

#PlanetaryHealth

Borrowed from: https://croakey.org/planetary-health-the-new-public-health-paradigm/

DAMAGING THE PLANET DAMAGES HUMAN HEALTH



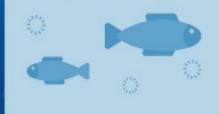
If unchecked climate change related impacts could cause an extra

250,000

deaths per year between 2030 and 2050³



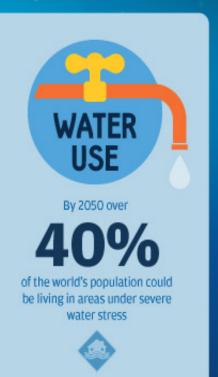
Overfishing together with increasing acidity and other environmental changes threaten fish supplies





Millions of people are at risk of under nutrition due to the combined effects of

climate change and other environmental changes



SOIL SOIL DEGRADATION This leads to a loss of 1-2 million hectares

of agricultural land per annum

THE LANCET

#planetaryhealth



TO SAFEGUARD HUMAN HEALTH WE NEED TO MAINTAIN THE HEALTH OF THE PLANET ON WHICH WE DEPEND

LEARN ABOUT PLANETARY HEALTH



Planetary health is the highest standard of health, wellbeing and equity worldwide. Human systems are responsible for shaping the future of human civilisation and the Earth's natural systems REDUCE FOOD WASTE



30-50% of all food produced is never consumed. Reducing food waste means less land is needed for agriculture; saving energy, water, helping to protect biodiversity and improving food security HEALTHY DIETS WITH A LOW ENVIRONMENTAL IMPACT



Diets low in red meat with plenty of fruit and vegetables reduce the risk of heart disease. Dietary changes could reduce greenhouse gas emissions and land use requirements by up to 50%

BETTER GOVERNANCE



Coordinated global, national and local policies that reduce environmental damage and improve health need to be implemented



TO SAFEGUARD HUMAN HEALTH WE NEED TO MAINTAIN THE HEALTH OF THE PLANET ON WHICH WE DEPEND



Planetary health broadens health research to include the external systems that sustain or threaten human health.



THE LANCET

in planetary health www.thelancet.com/planetary-health

HEALTH SCIENCES

Cardiac medicine

Genetics research

Endocrinology & metabolism

Neurosciences

Infectious diseases

Nutrition & dietetics

Oncology

Psychiatry

Respiratory medicine

Virology

Planetary health

NATURAL AND PHYSICAL SCIENCES Agriculture

Biodiversity conservation

Ecology

Environmental sciences

Meteorology

Oceanography

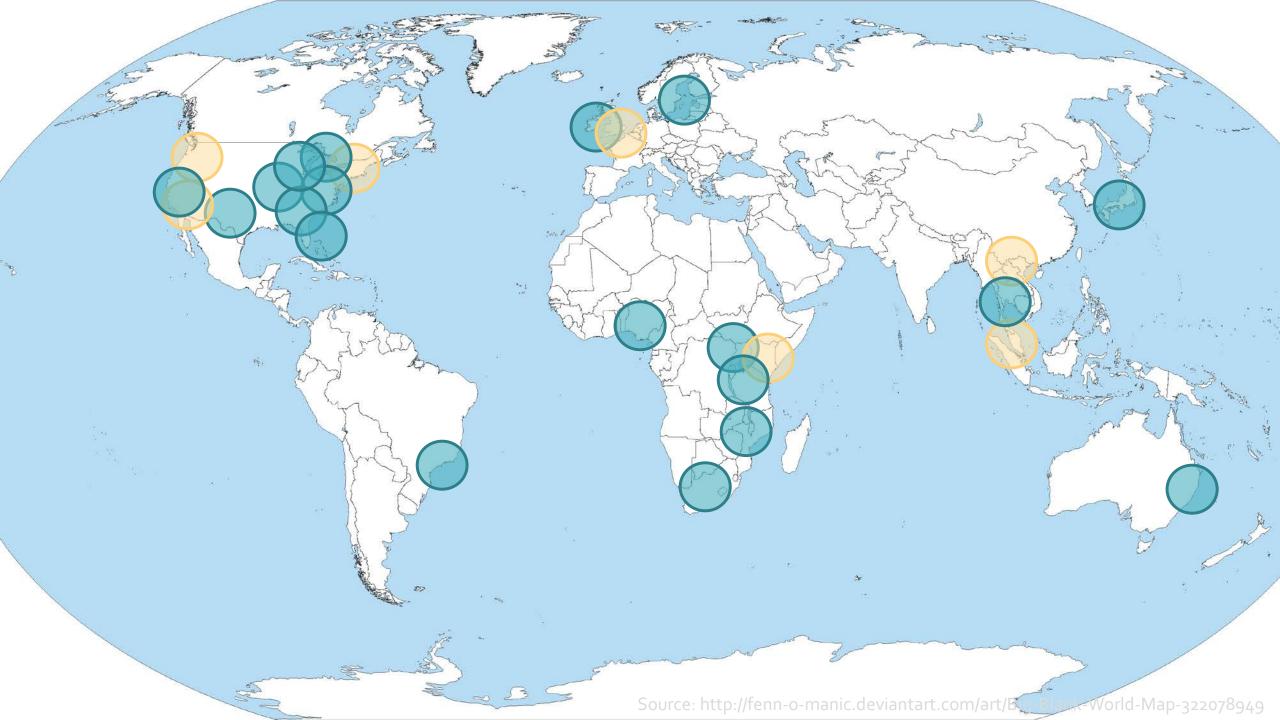
Soil science

Urban planning

Water resources

Universities helping to lead the charge In Planetary Health

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Thematic Areas of University Focus

- Bring planetary health to the world stage
- Lead high-impact research that informs policy for action.
- Teach planetary health to current, future leaders
- Foster trans-disciplinary, cross-sector collaboration

Show Need + Solutions + Scalability for impact. Drive Policy

Source: http://fenn-o-manic.deviantart.com/art/K



University of Sydney

- Named Professor of Planetary Health
- Trans-disciplinary education and impact-focused research





Consortium for Advanced Research Training in Africa (CARTA)

- Multidisciplinary education
- Multidisciplinary research
- Population health impacts
- Government awareness; commitment
- Cross-sector partnerships



University of Edinburgh

- Cross-disciplinary partnerships
- Accessible education
- Summer school demonstration projects

London School of Hygiene & Tropical Medicine

Advocacy for awareness, action
Cross-sector partnerships
Impact-focused research
Accessible education

Source: http://www.dailymail.co.uk/news/article-1262588/Spectacular-pictures-London-taken-1-000-feet-air.html

Harvard University

- Impact-focused research
- Accessible education
- Cross-sector partnerships
- Advocacy for awareness, action

Cornell University

Source: https://images.nasa.gov

Teach, Research, Work Across Disciplines

- Multidisciplinary education
- Multidisciplinary research
- Cross-sector partnerships
- Research for impact, scalability
- Science policy work for the Planetary Health Alliance

- The United Nations University (Japan)
- Thammasat University (Thailand)
- Tshinghua University (China)The University of Sao Paolo (Brazil)

Partner Universities and Units





African Population and Health Research Center



