

Health, Climate Change and Biodiversity:

Planetary Health Perspectives from the Philippines

Renzo Guinto, MD DrPH

Chief Planetary Doctor, PH Lab

Inaugural Director, Planetary & Global Health Program,

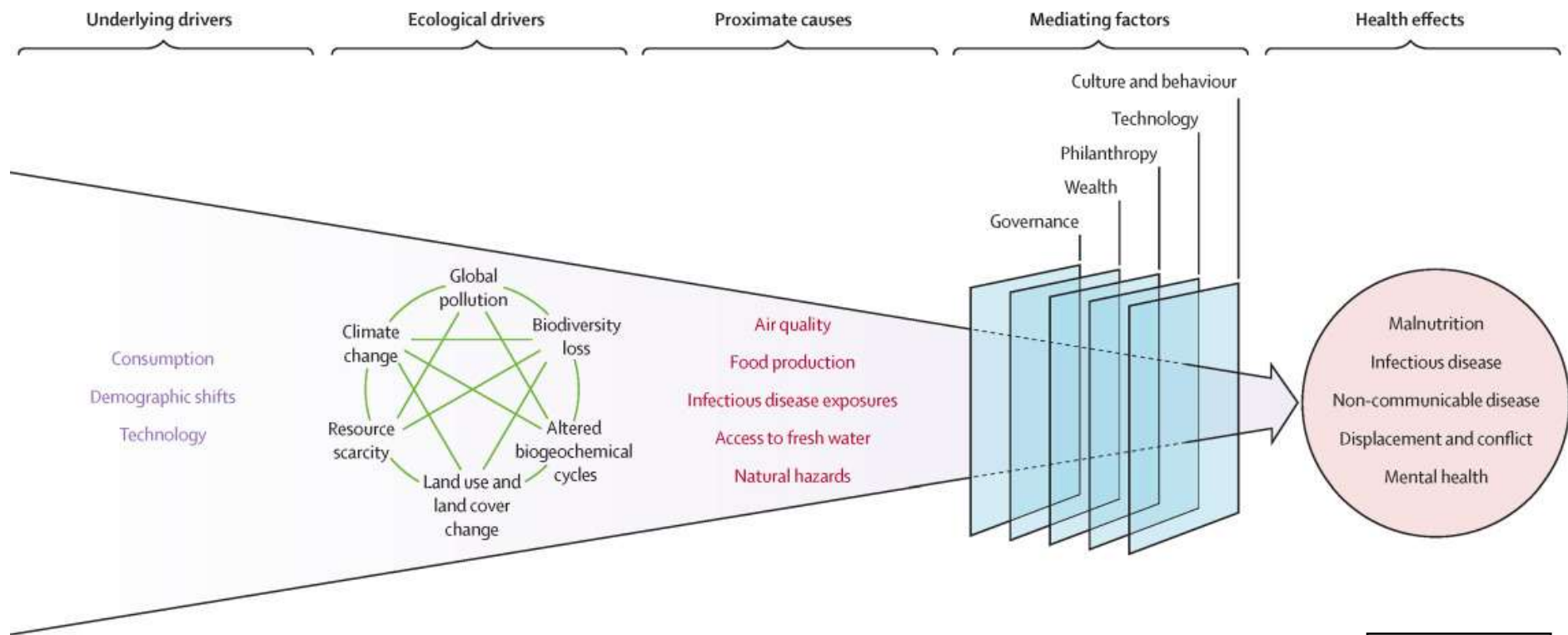
St. Luke's College of Medicine, Philippines



St. Luke's
Medical Center

College of Medicine
William H. Quasha Memorial

Anthropogenic Change and Human Health



(Myers, 2017)





From public health to planetary health



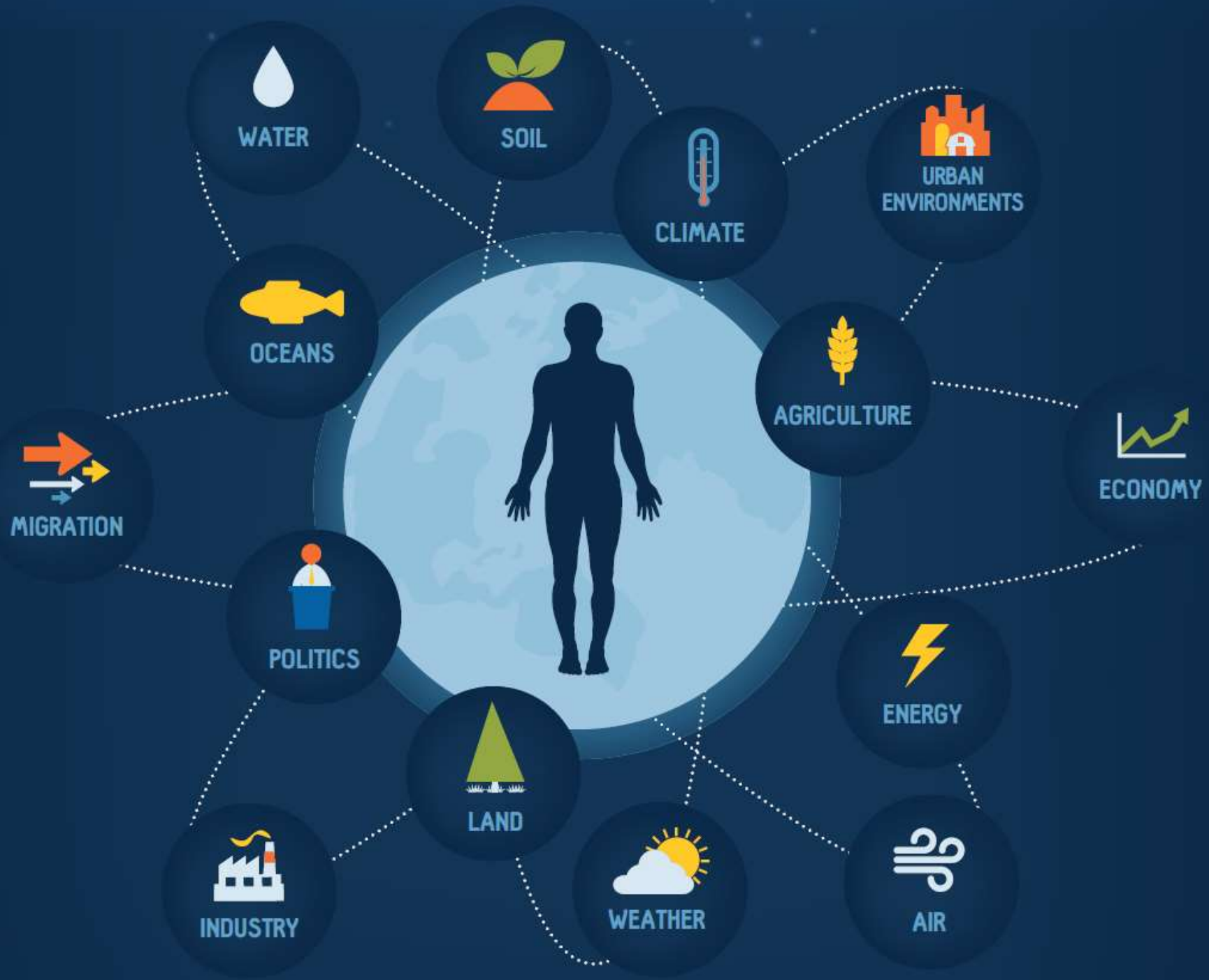
Our patients? PEOPLE and PLANET



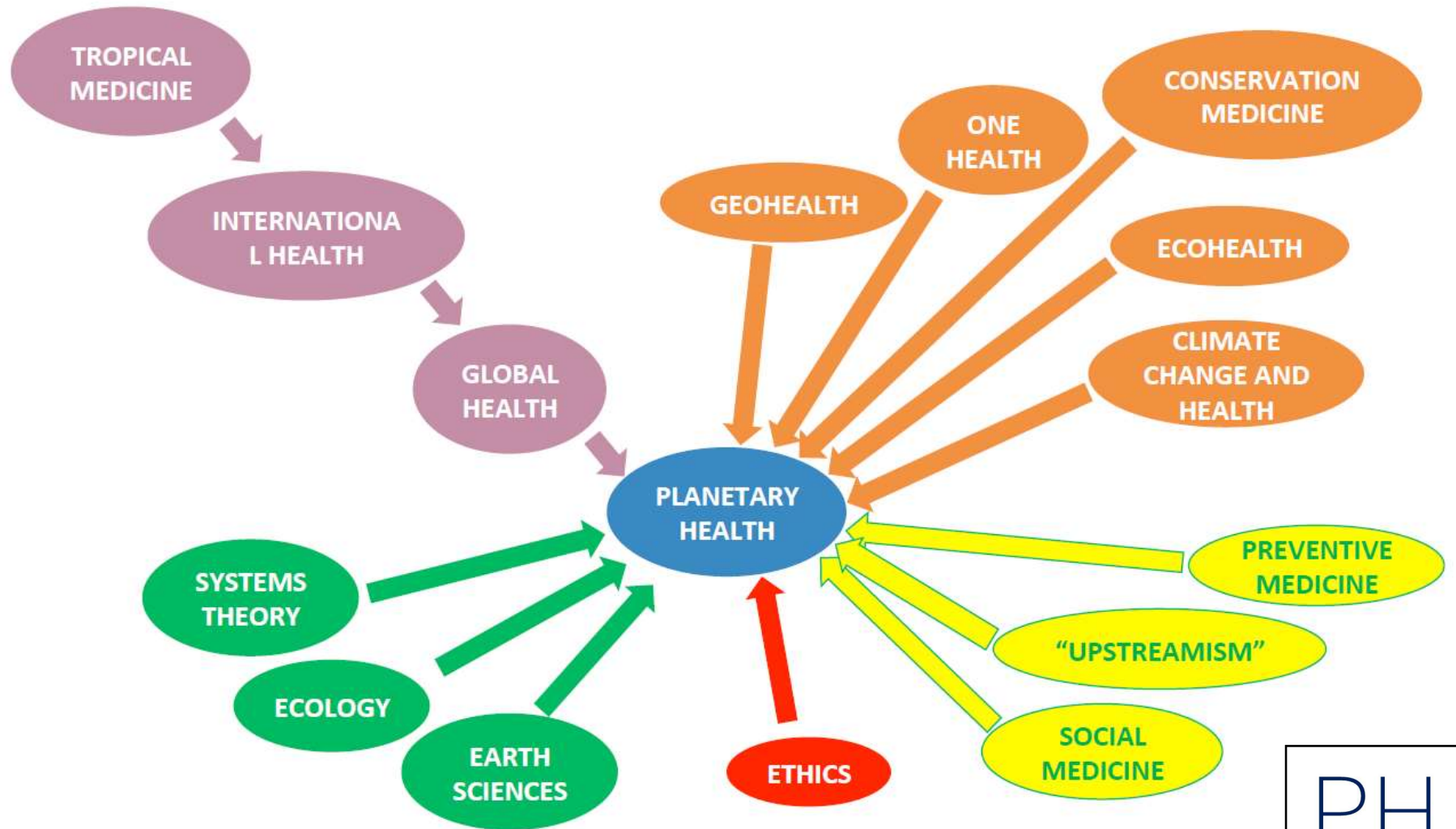
PLANETARY HEALTH

THE HEALTH OF HUMAN
CIVILISATION AND THE NATURAL
SYSTEMS ON WHICH
IT DEPENDS





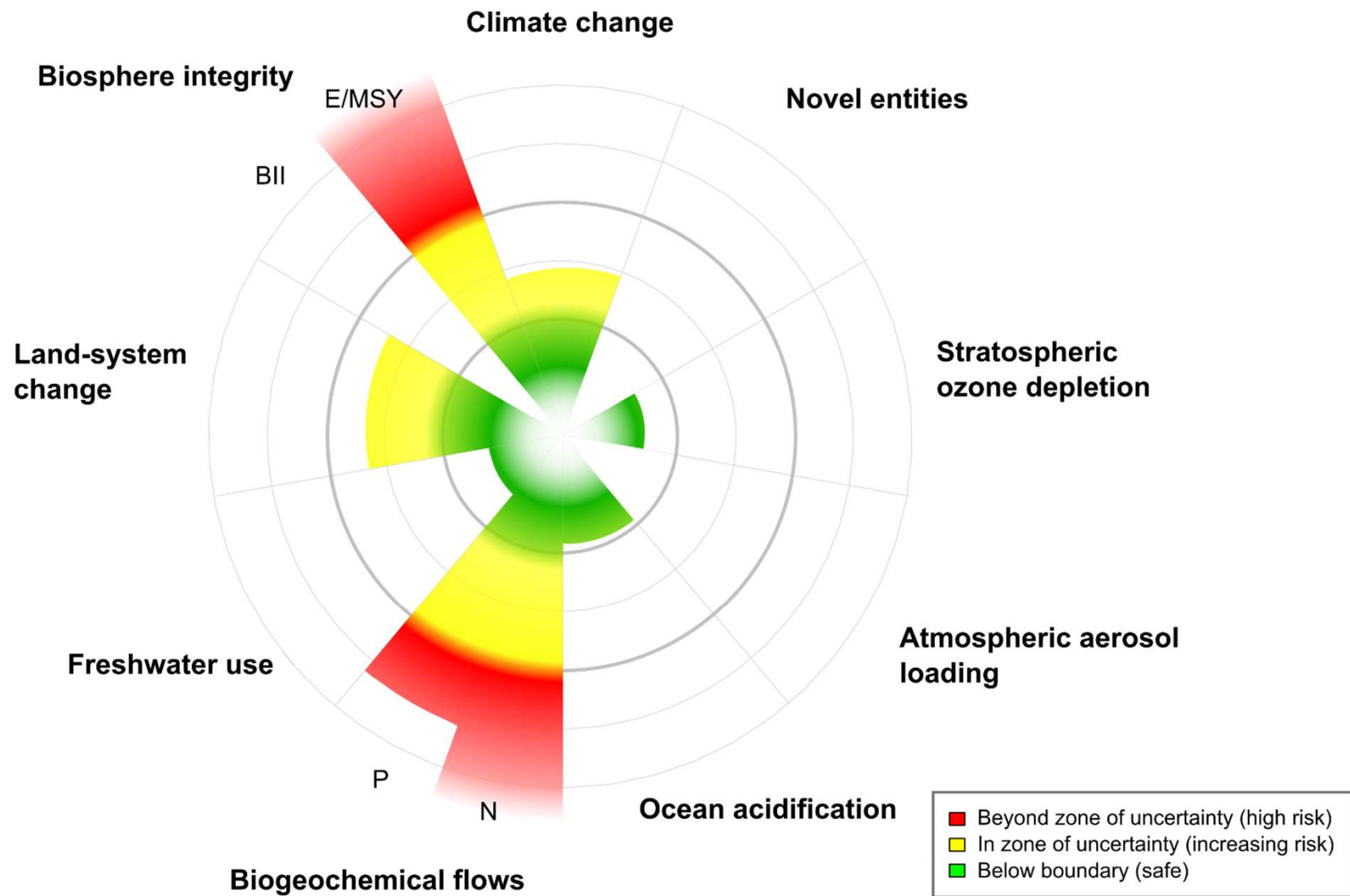
Planetary Health: The Grand Convergence



(Frumkin, 2017)

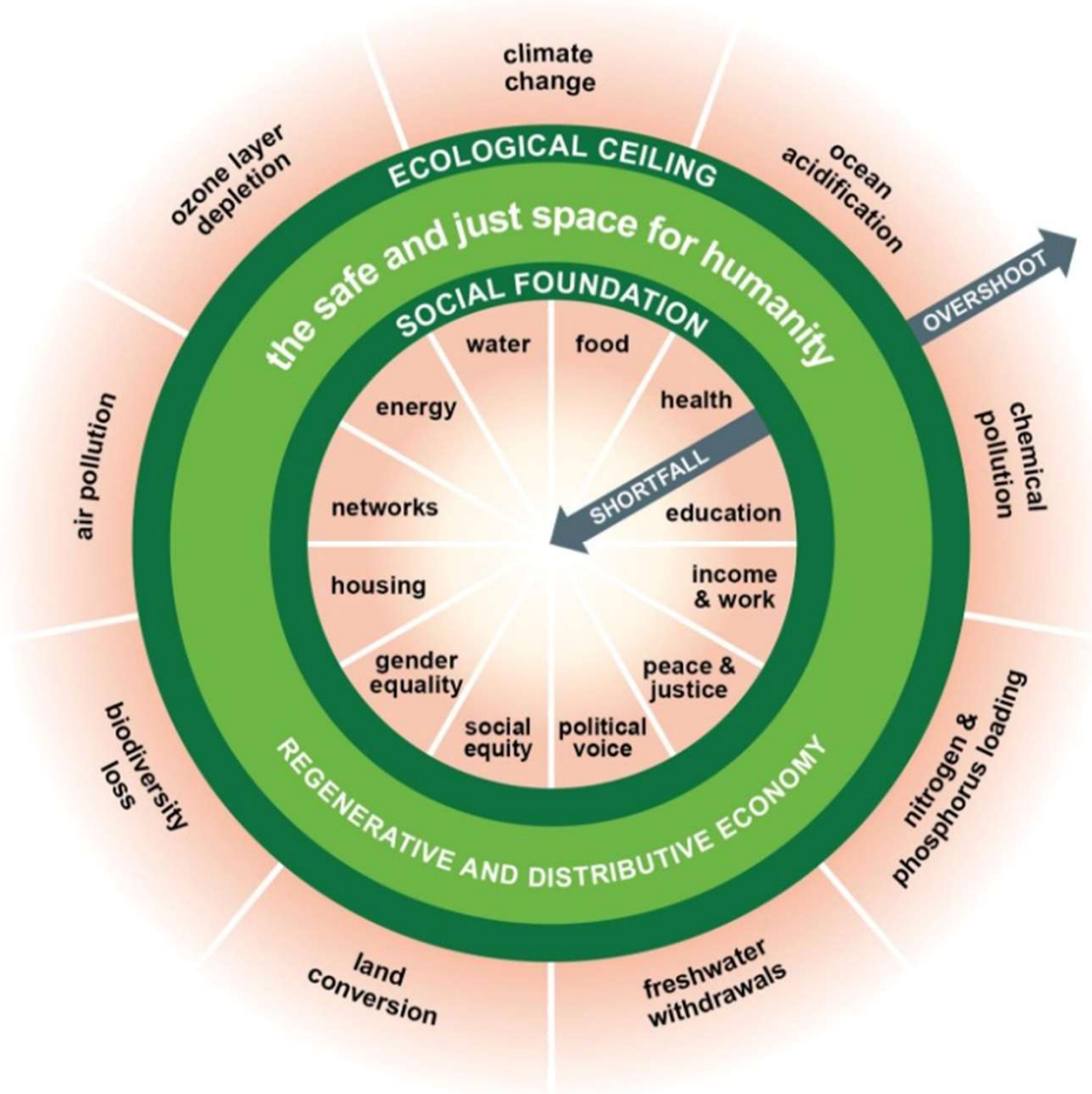


Planetary Boundaries

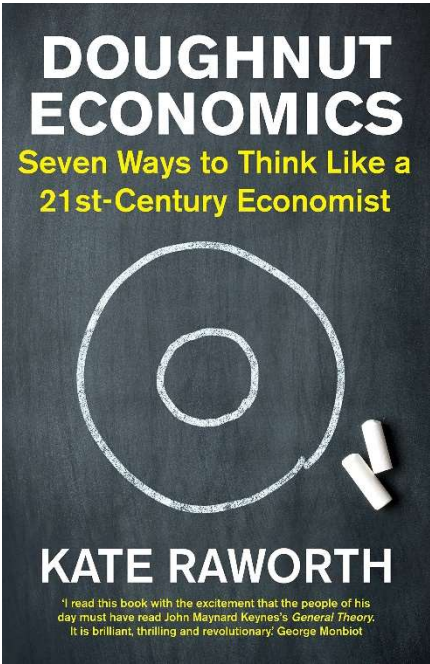


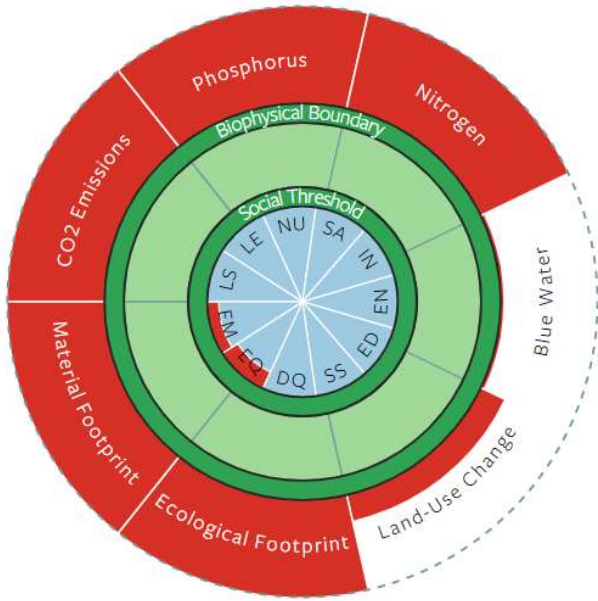
(Steffen, et al., 2015)

Doughnut Economics

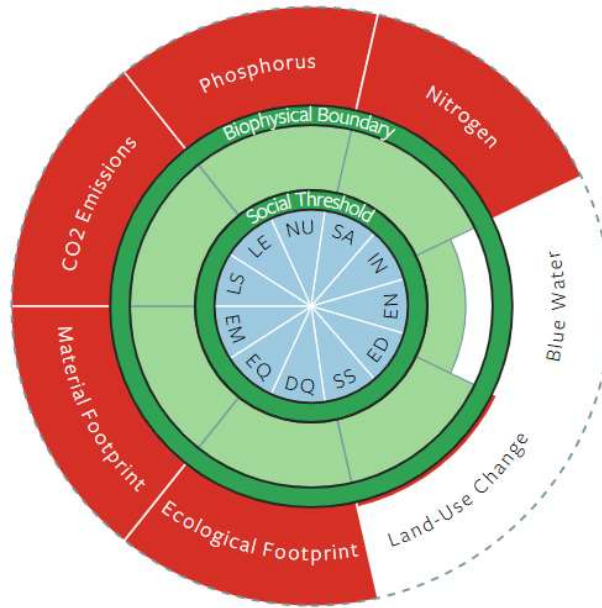


(Raworth, 2017)

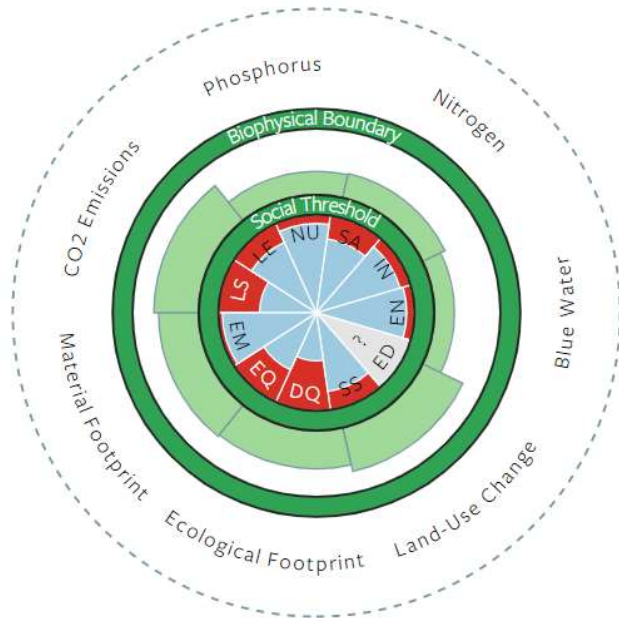




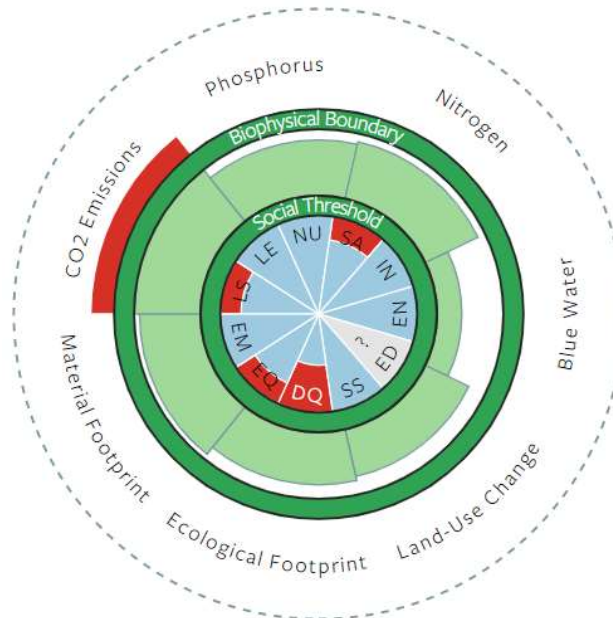
USA



Netherlands



Philippines



Vietnam

A Good Life For All Within Planetary Boundaries

(O'Neill, et al., 2018)



the
guardian

Amsterdam to embrace 'doughnut' model to mend post-coronavirus economy

**Dutch officials and British economist to use guide to help city
thrive in balance with planet**



Philippines



- at the heart of planetary health

Mega Biodiversity Hotspots





THE CORAL TRIANGLE: THE WORLD'S CENTRE OF MARINE BIODIVERSITY



SCALE:
500 km

Published: April 2005

The center of the center of marine shore fish biodiversity: the Philippine Islands

[Kent E. Carpenter](#) & [Victor G. Springer](#)

[Environmental Biology of Fishes](#) **72**, 467–480(2005) | [Cite this article](#)

1302 Accesses | **268** Citations | **21** Altmetric | [Metrics](#)



SCITECH

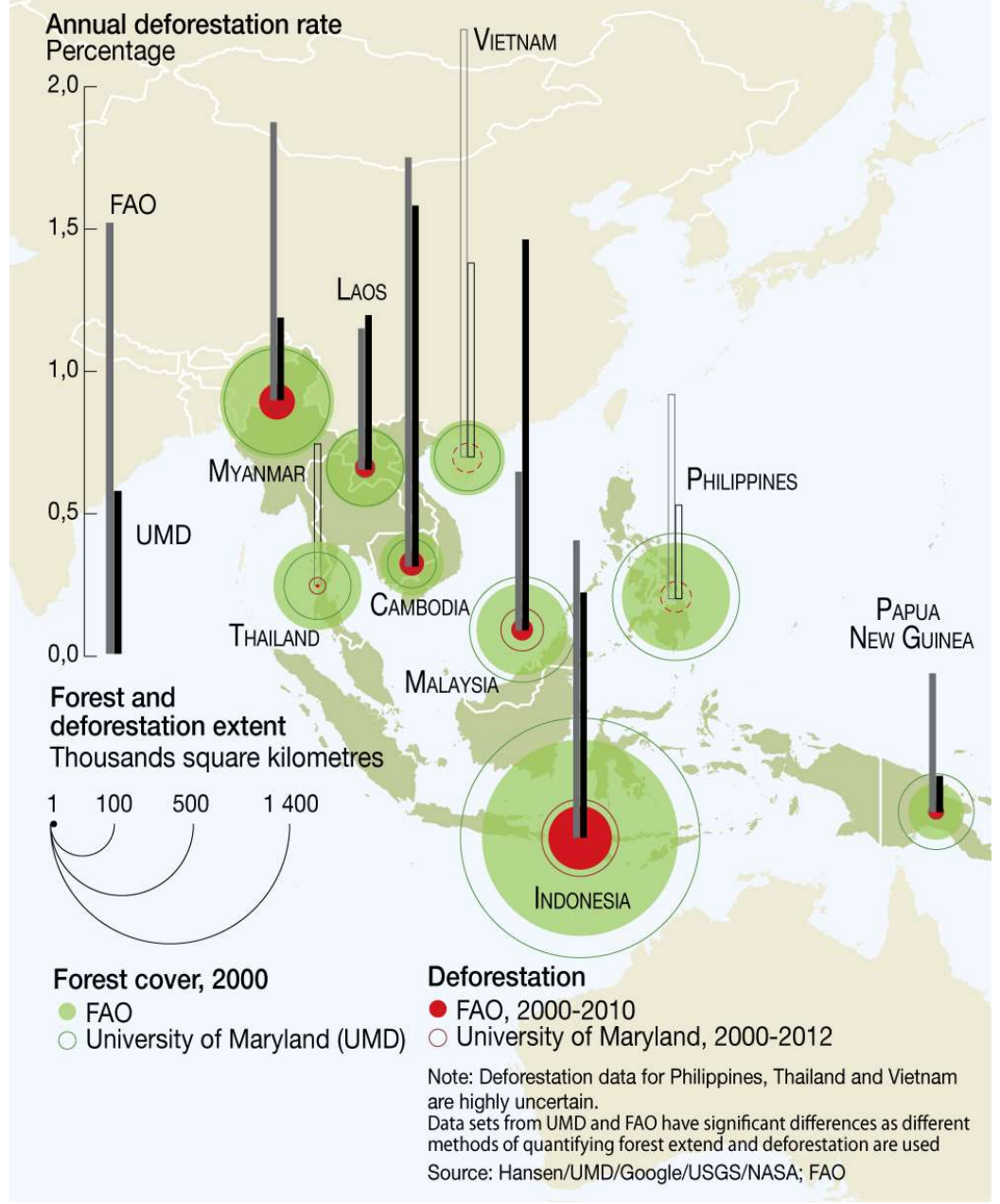
Filtered By: Scitech

Pinoy scientist mistakes plastic trash in Emden Deep for jellyfish

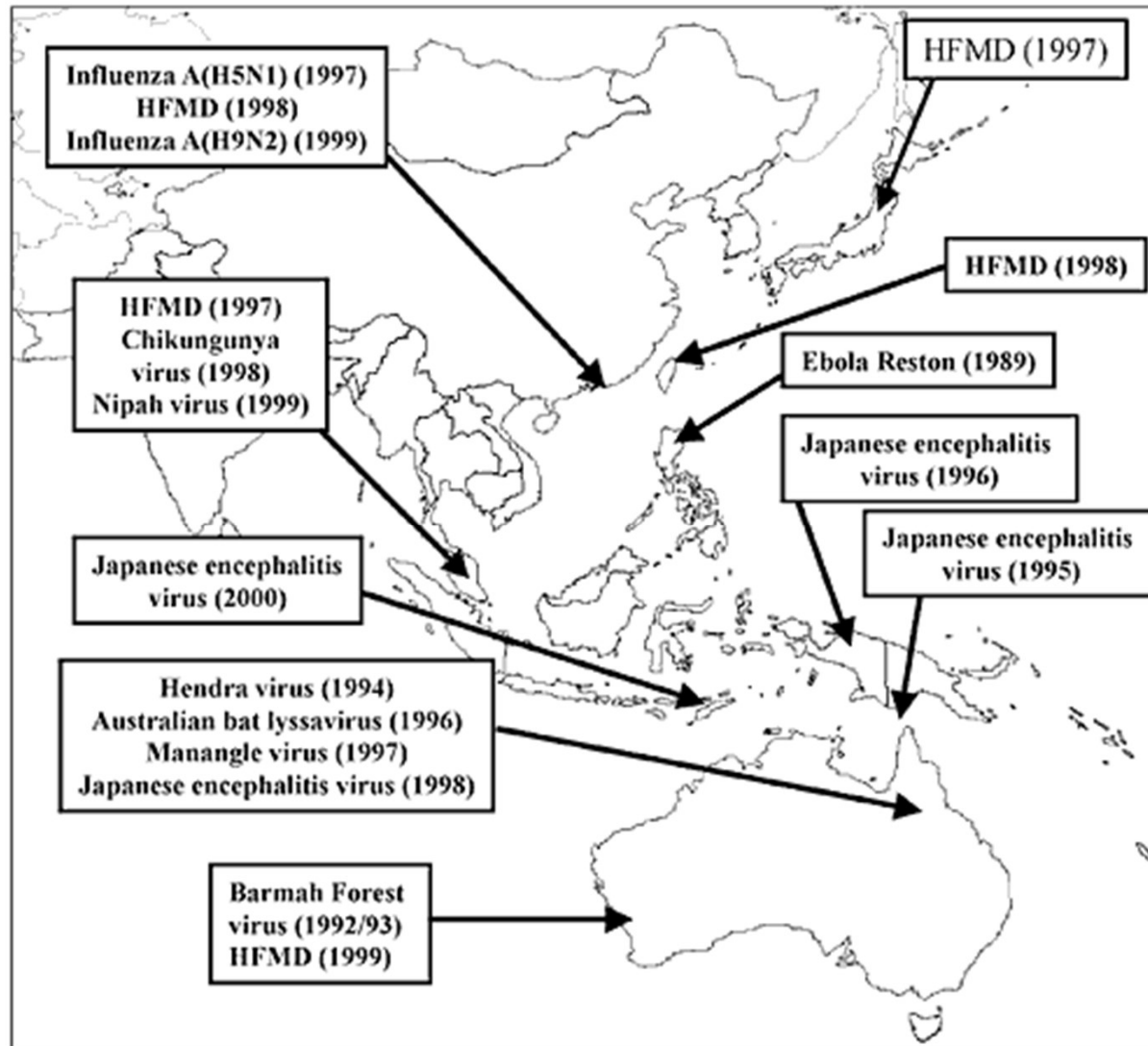
Published April 5, 2021 8:54pm

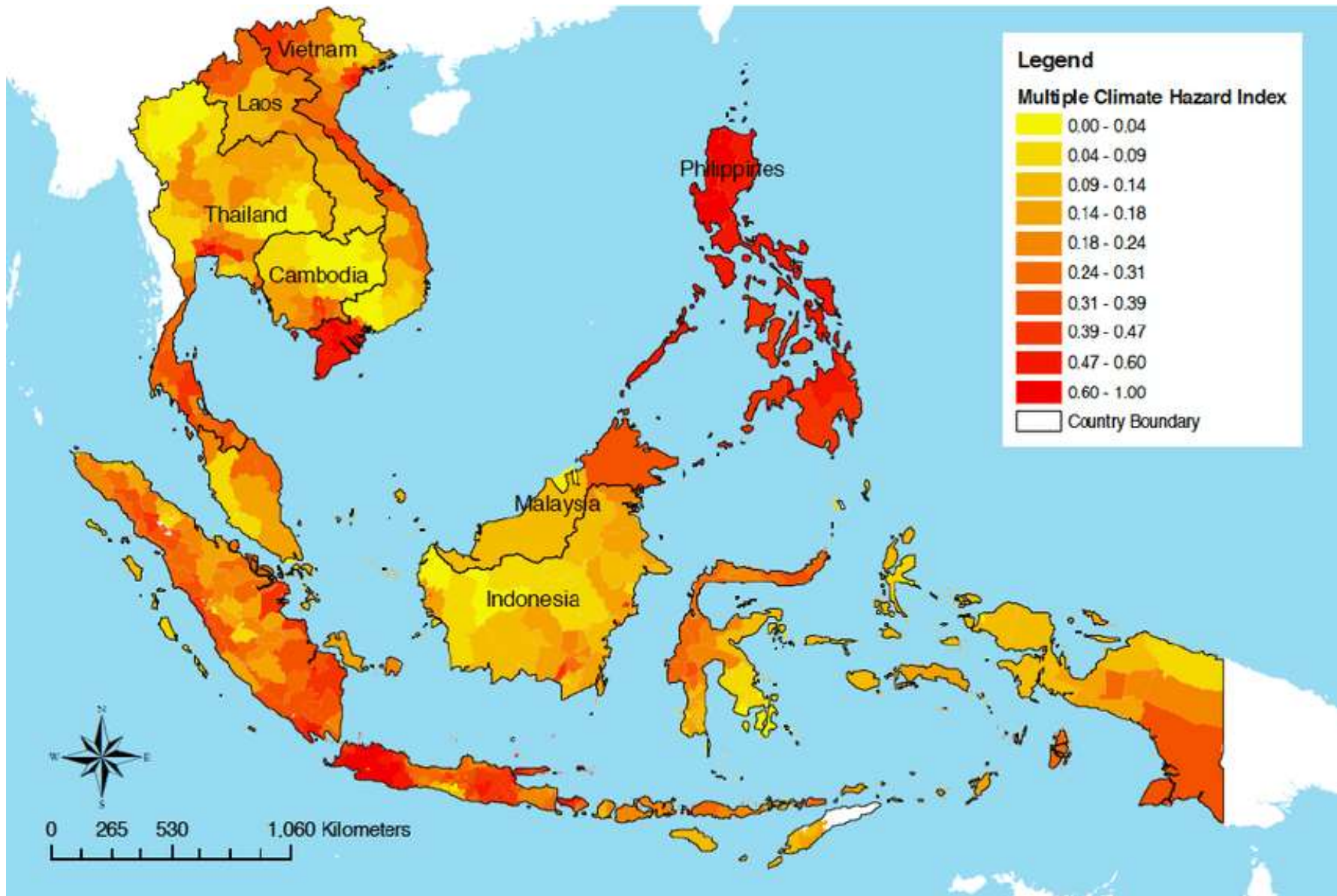


Extent of rainforest and deforestation in South East Asia and Oceania



Southeast Asia “Hotspot” for Emerging Infectious Diseases





(Yusuf & Francisco, 2009)



THE LANCET

June, 2015

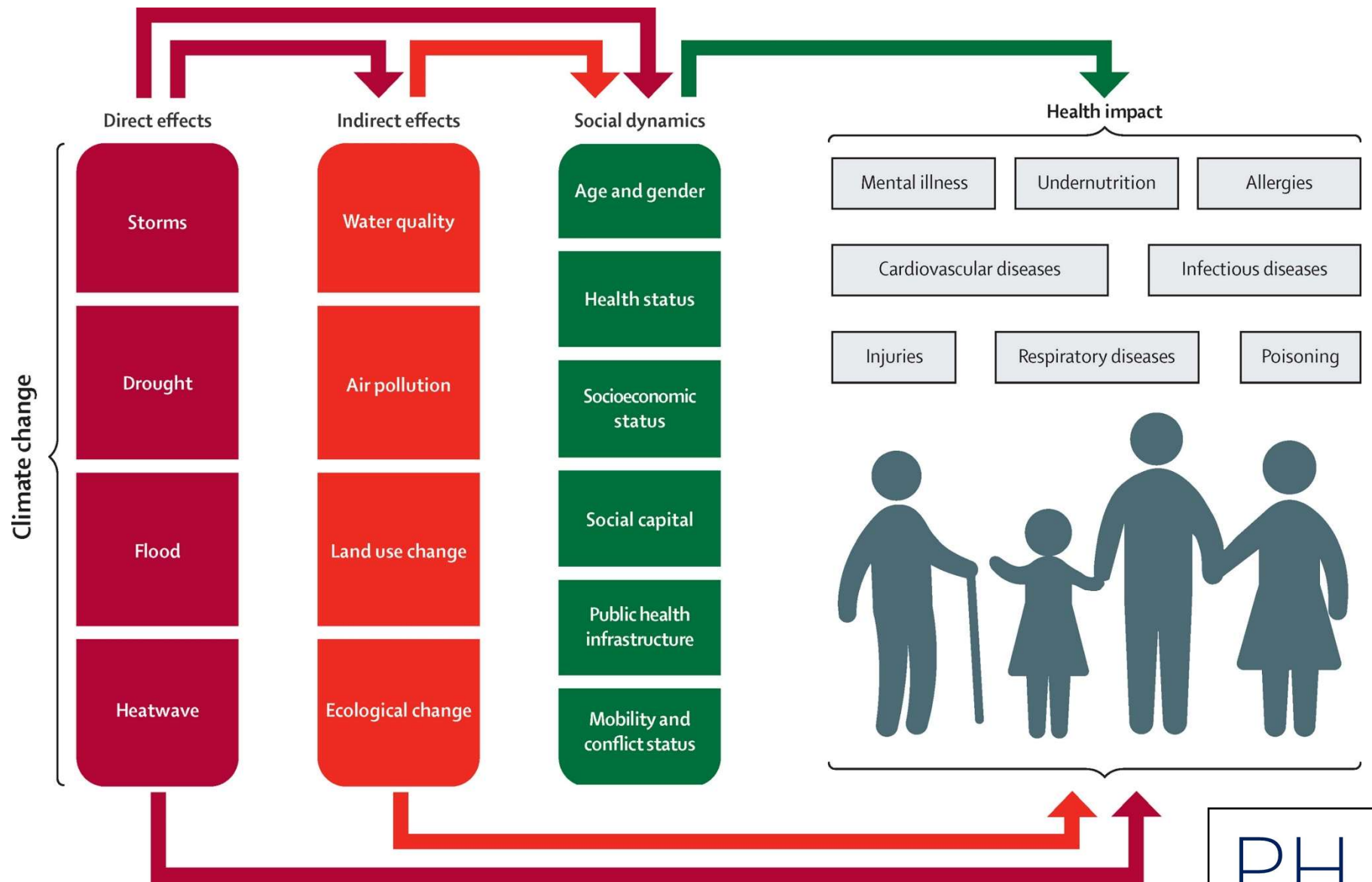
www.thelancet.com

Health and climate change



“Tackling climate change could be the greatest global health opportunity of the 21st century.”

A Commission by The Lancet



(Watts, et al., 2015)







PHILIPPINE DAILY INQUIRER

BALANCED NEWS. FEARLESS OPINION.

'Ma, just let go... Save yourself'

By DZ Top

INGO (IBAN CITY)—High school teacher Bernadene Joseph, 48, would never forget the last words of her daughter.

"Ma, just let go. Save your self," said the girl, whose body was pinned by twisted rebar from those houses crumpled by Super typhoon "Yolanda."

"I was holding her and I kept getting her to hang on, that thing getting so heavy but she just gave up," said Joseph, her face etched in grief.

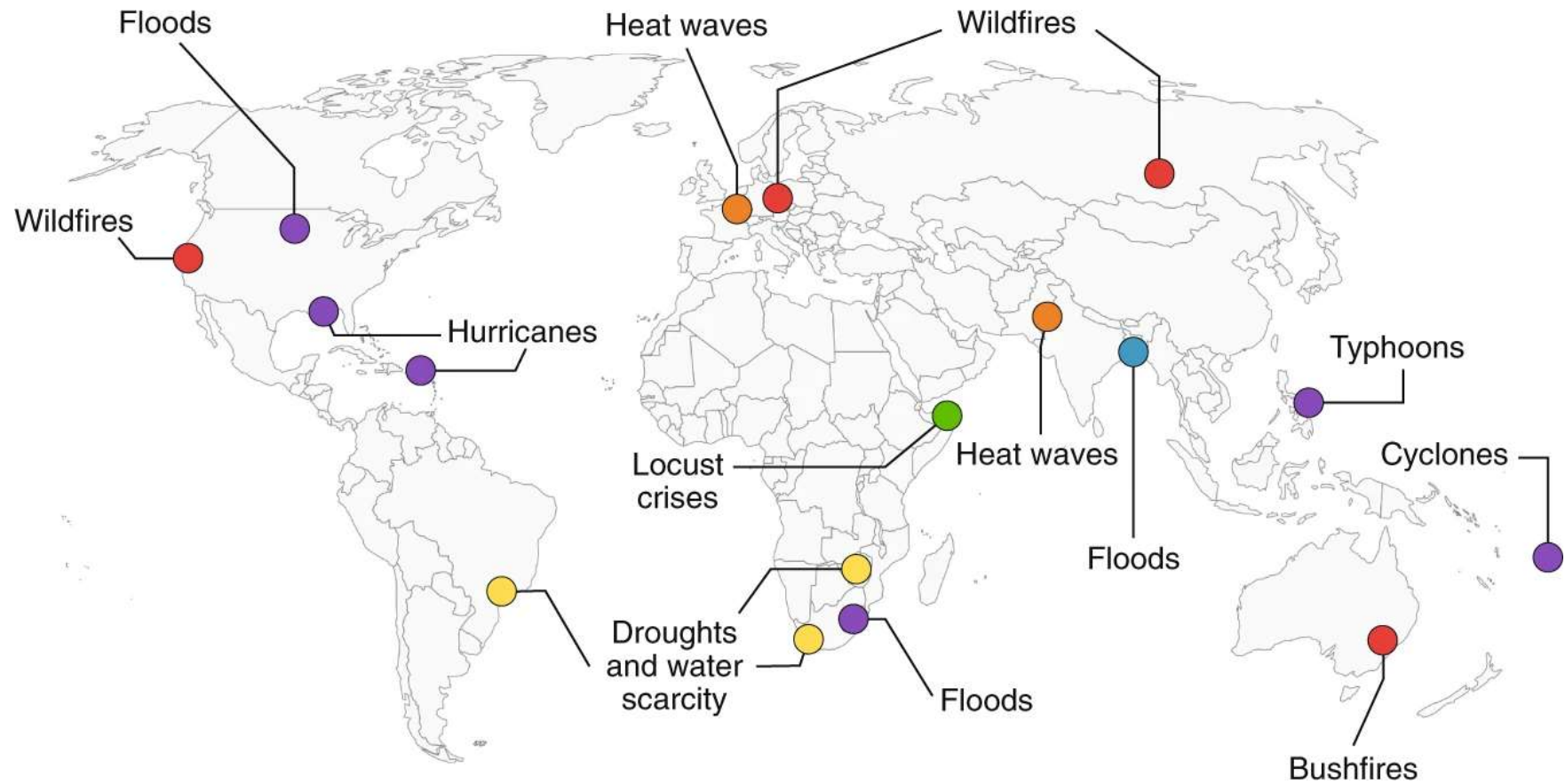
The sun was shining brightly above the deadly tangle of the twisted rebar, casting a clearer light on the misery that had descended upon the MAJUSTICE GO-AP



SO YOUNG A man helps his 6-year-old daughter to the morgue in downtown Tacloban City. The girl was one of the fatalities in the storm surge whipped up by Super typhoon "Yolanda." [INQ5ms](#) (this page) just use the tags to view more photos.

Worst disaster to hit PH

Likely upcoming climate hazards during the COVID-19 pandemic



(Phillips, et al., 2020)



UN News



Global perspective
Human stories

Philippines typhoon recovery, complicated by coronavirus concerns



SCIENTIFIC METHOD —

Ocean levels in the Philippines rising at 5 times the global average

Globally, sea levels are going up, but there are big regional differences.

SHALINI SAXENA - 2/19/2016, 9:00 PM



Salinity and Health

**Drinking Water Salinity and Maternal Health in Coastal Bangladesh:
Implications of Climate Change**

**Drinking Water Salinity and Raised Blood Pressure: Evidence from a Cohort Study
in Coastal Bangladesh**

**Salinity in Drinking Water and the Risk of (Pre)Eclampsia
and Gestational Hypertension in Coastal Bangladesh: A
Case-Control Study**

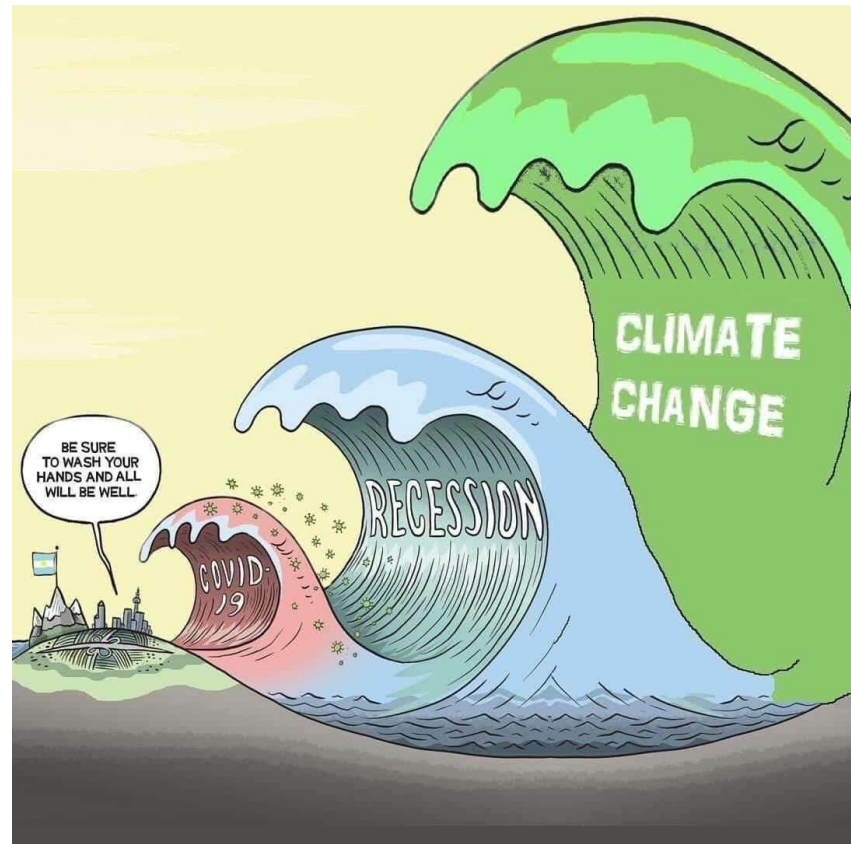
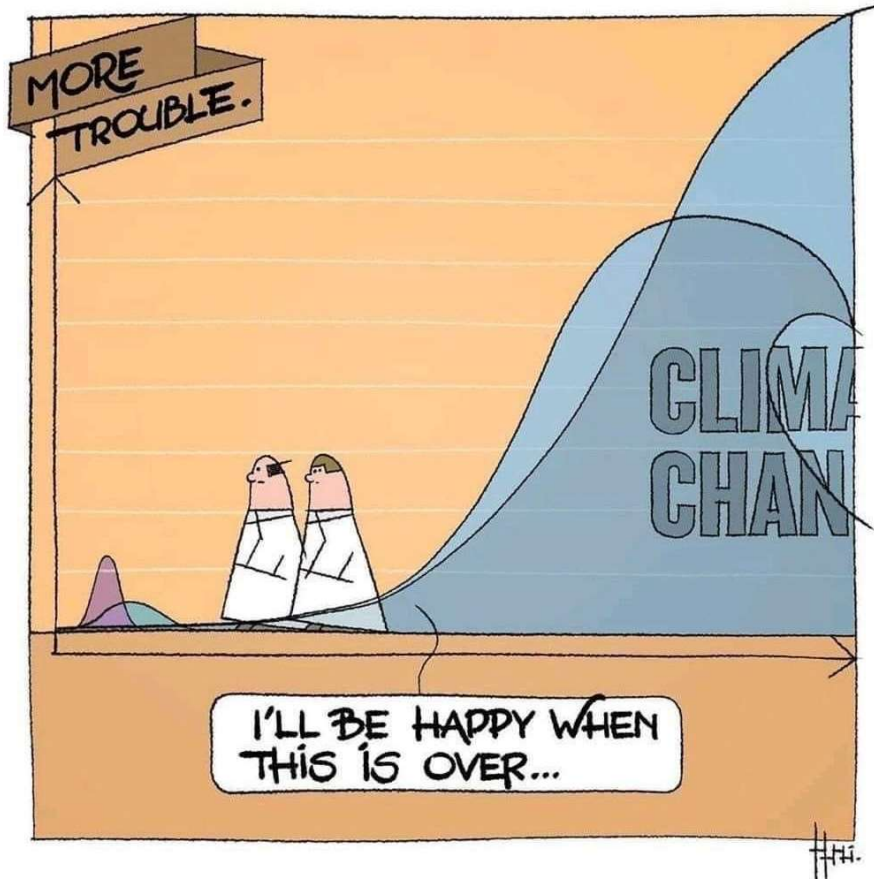
Association between salinity and hospital admission for
hypertension: an ecological case–control study in the Mekong
Delta Region in Vietnam

**Salinity and Miscarriage: Is There a Link? Impact of Climate
Change in Coastal Areas of Bangladesh - A Systematic Review**

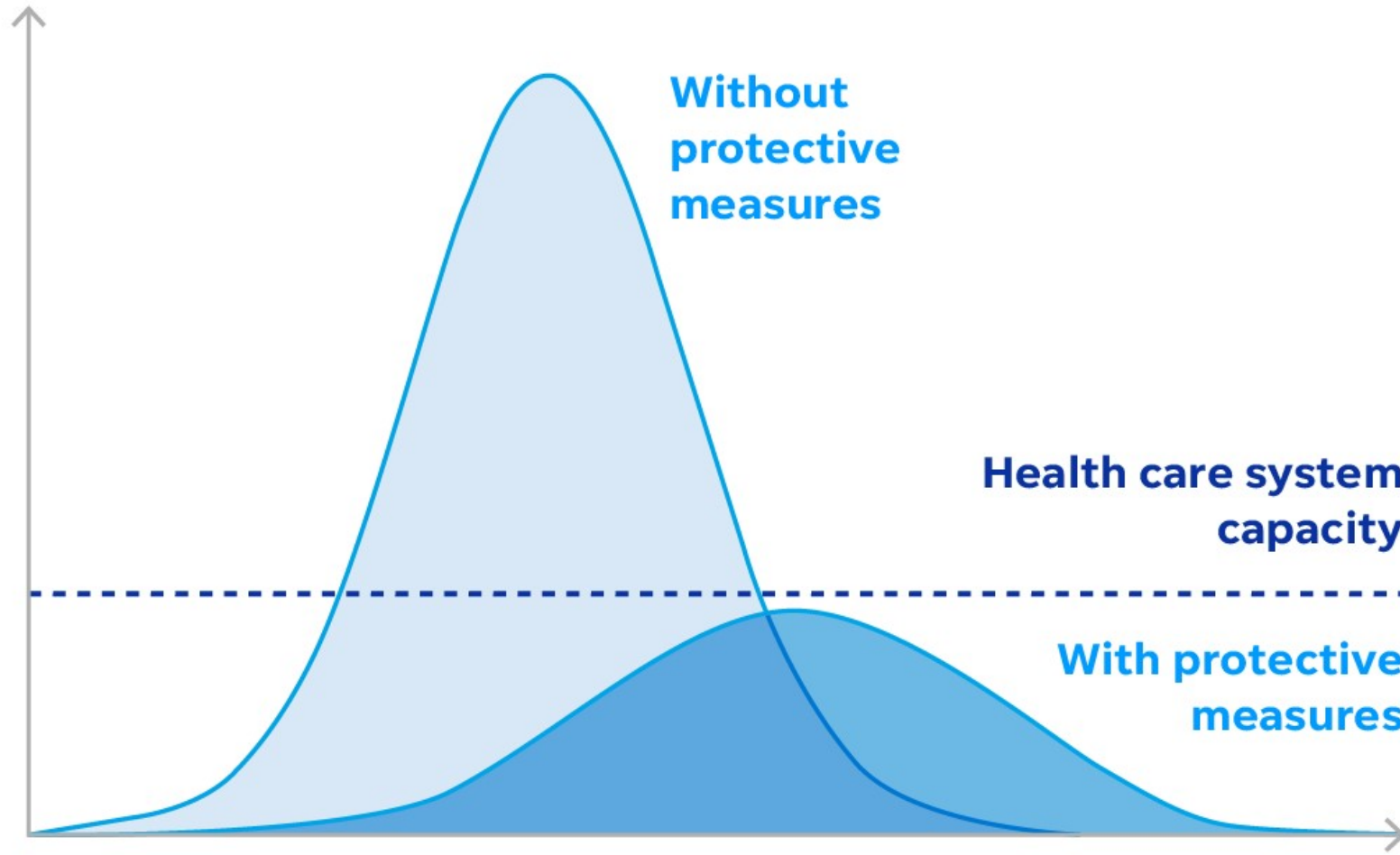
**Modeling the Relationship of Groundwater Salinity to
Neonatal and Infant Mortality From the Bangladesh
Demographic Health Survey 2000 to 2014**

**Impact of Salinity on Infant
and Neonatal Mortality in Bangladesh**

**Drinking Water Salinity, Urinary Macro-Mineral Excretions, and Blood
Pressure in the Southwest Coastal Population of Bangladesh**



Number of daily cases



**Without
protective
measures**

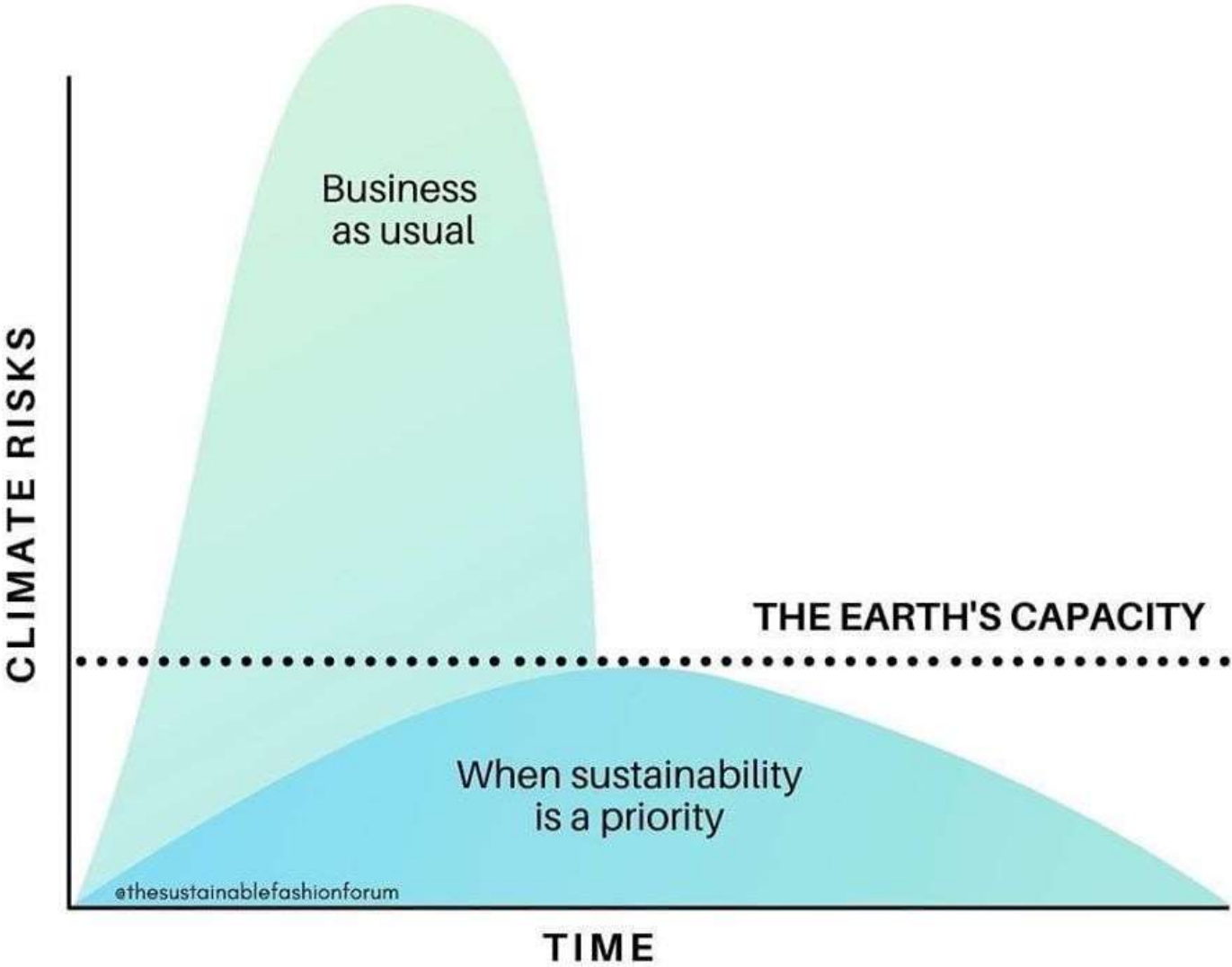
**Health care system
capacity**

**With protective
measures**

Days since first case

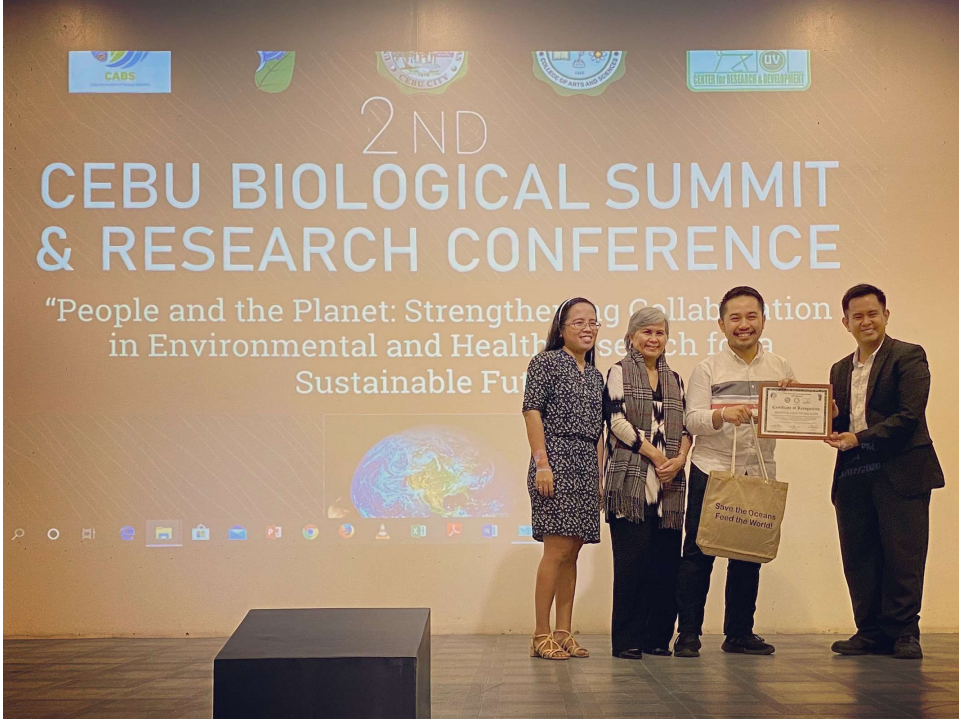


LET'S FLATTEN THIS CURVE TOO



@thesustainablefashionforum







PLANETARY
HEALTH
PHILIPPINES



“The pandemic is a portal, a gateway
between one world and the next.”

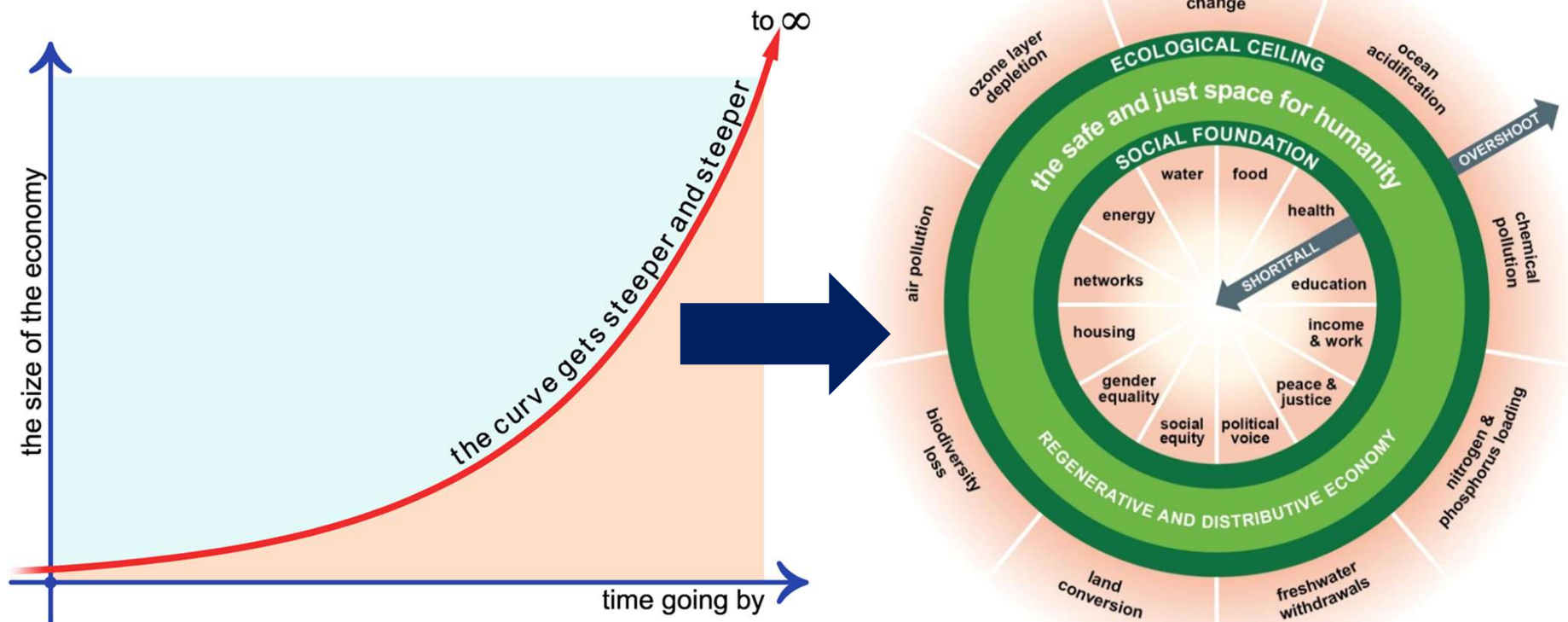
Arundhati Roy



and we need a new compass!

New Normal? There's no "Old Normal"!

Renovating the Political Economy of Planetary Health



Planetary Health is Planetary Humility

Ego-Logical



Authoritarian ~ Dualistic ~ Unsustainable
Delusional ~ Mechanistic ~ Self-destructive
Unwise ~ Imbalanced ~ Power Seeking

Eco-Logical



Democratic ~ Holistic ~ Sustainable
Compassionate ~ Natural ~ Regenerative
Wise ~ Balanced ~ Interdependent



The Good Ancestor

HOW TO THINK LONG TERM
IN A SHORT-TERM WORLD

Roman Krznaric



'This is the book our children's
children will thank us for reading'

THE EDGE, U2

The tug of war for time



Graphic: Nigel Hawtin

Six drivers of
short-termism

Six ways to
think long

Tyranny of the Clock
the acceleration of time
since the Middle Ages



Deep-Time Humility
grasp we are an eyeblink
in cosmic time

Digital Distraction
the hijacking of attention
by technology



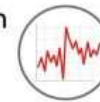
Legacy Mindset
be remembered
well by posterity

Political Presentism
myopic focus
on the next election



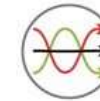
Intergenerational Justice
consider the seventh
generation ahead

Speculative Capitalism
volatile boom-bust
financial markets



Cathedral Thinking
plan projects beyond
a human lifetime

Networked Uncertainty
the rise of global risk
and contagion



Holistic Forecasting
envision multiple pathways
for civilisation

Perpetual Progress
the pursuit of
endless economic growth



Transcendent Goal
strive for
one-planet thriving



From *The Good Ancestor: How to Think Long Term in a Short-Term World* by Roman Krznaric. Graphic design by Nigel Hawtin.



PHILIPPINES



Silicon Islands of Planetary Health



Advancing the health
of people and planet

renzo.guinto@mail.harvard.edu

@RenzoGuinto

www.phlab.org