

PHOENIX ZONES INITIATIVE



Using medical and public health expertise to solve problems for people, animals, and the planet—so everyone can rise and thrive.

运用医学及公共卫生的知识来解决人类、动物及地球之间存在的问题
-让所有的生命都能繁荣昌盛

Hope Ferdowsian, MD, MPH, FACP, FACPM
Co-founder, President, and CEO, Phoenix Zones Initiative
Internal Medicine, Preventive Medicine, and Global Public Health Physician
Professor, Department of Internal Medicine, University of New Mexico School of Medicine



The deadliest flu 最致命的流感

Image: CDC

The response

应对



An elderly man with white hair and glasses, wearing a white lab coat over blue overalls and white gloves, is kneeling in a dirt pit. He is pointing with his right hand towards a cluster of skeletal remains on the ground. The pit is lined with wooden planks, and the soil is reddish-brown. The scene is dimly lit, suggesting an indoor or shaded excavation site.

The exhumation

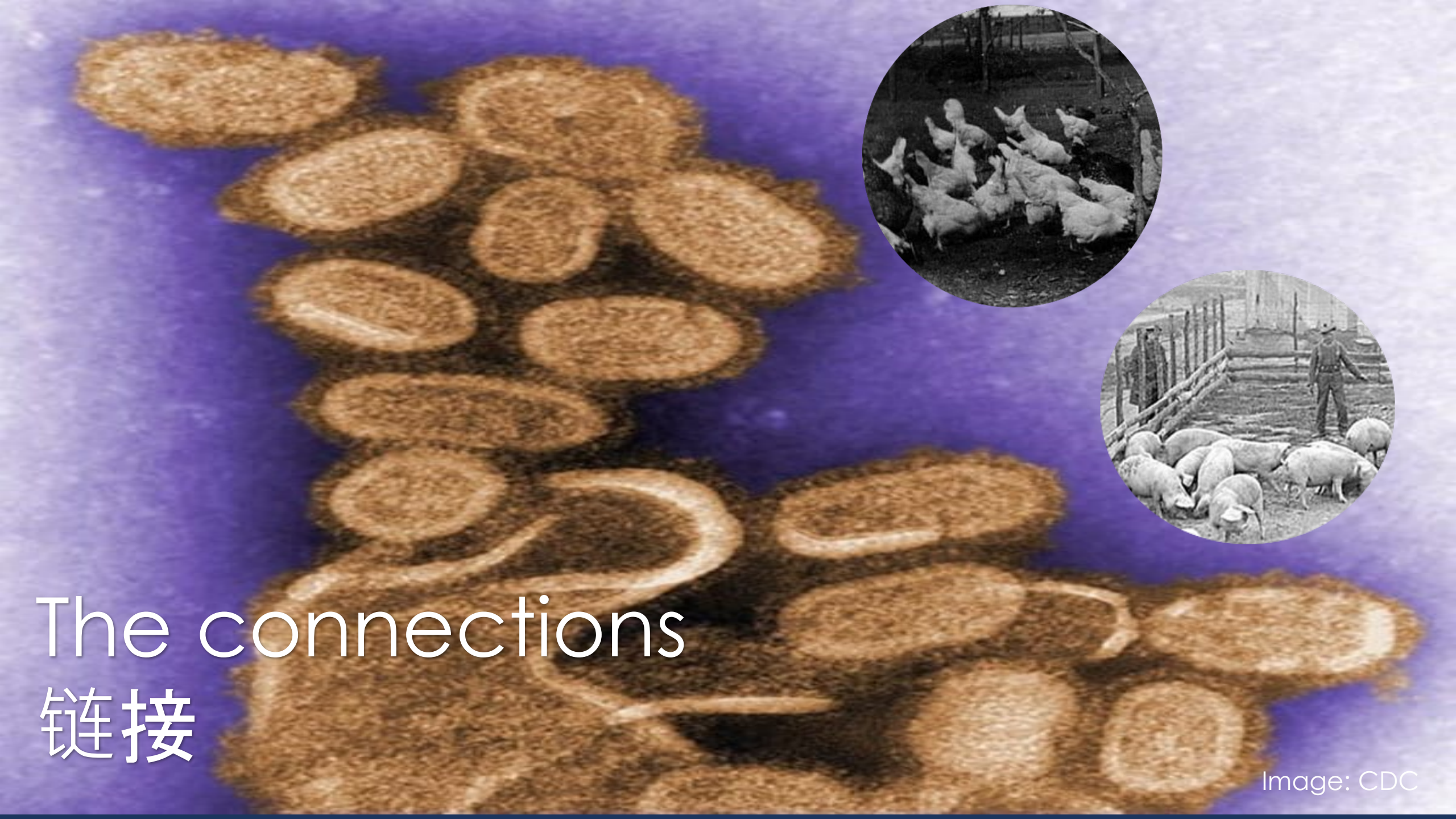
发掘

Image: CDC

The sequence 序列



Image: CDC



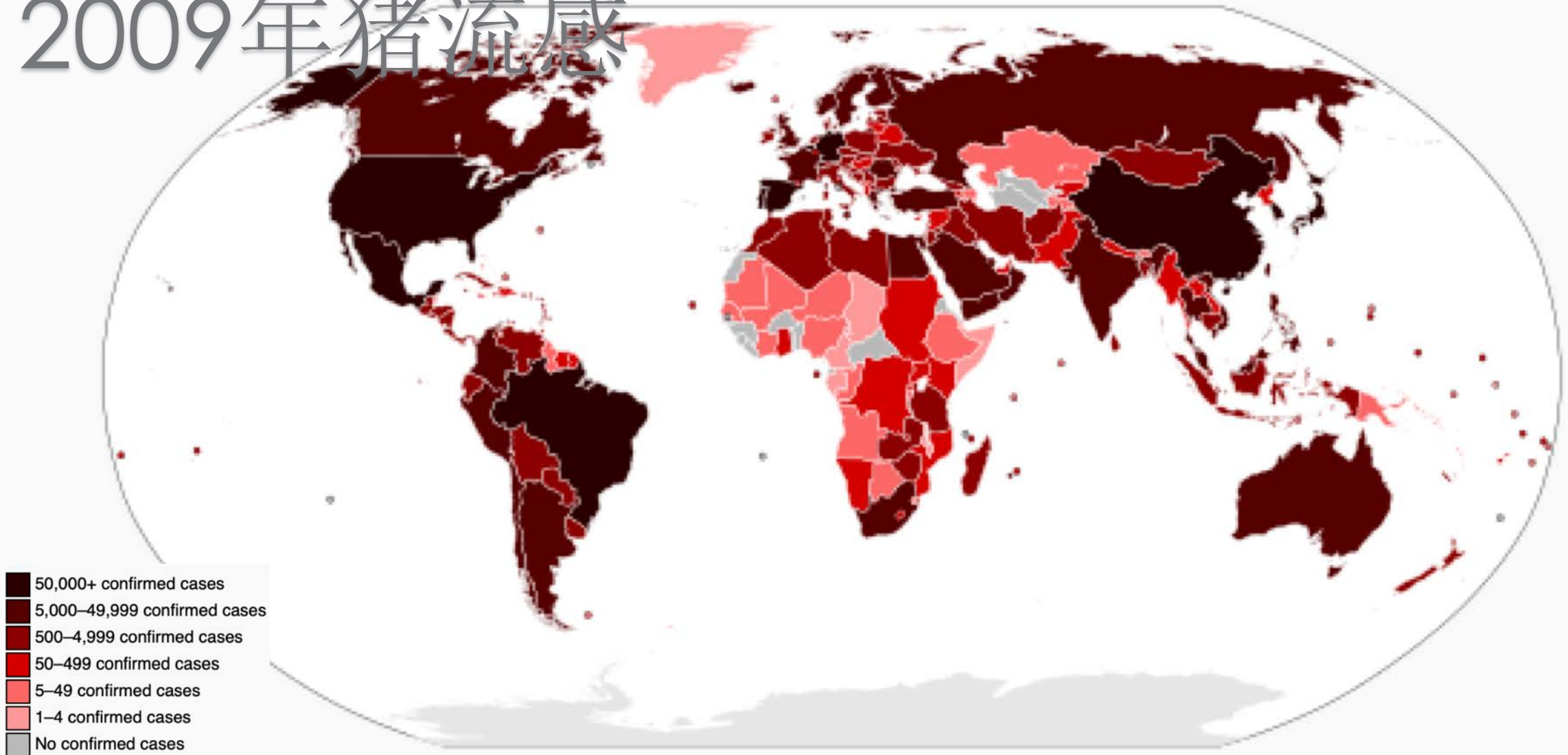
The connections

链接

Image: CDC

2009 swine flu pandemic

2009年猪流感





The latest pandemic
最近一次大流行疫情

SCIENCE

The Strongest Evidence Yet That an Animal Started the Pandemic

A new analysis of genetic samples from China appears to link the pandemic's origin to raccoon dogs.

By Katherine J. Wu

迄今为止最有力的证据证明动物引发了大流行



SCIENCE ADVANCES | REVIEW

EPIDEMIOLOGY

The infectious disease trap of animal agriculture

Matthew N. Hayek

畜牧业的传染病陷阱



The global nutrition transition

全球营养转型



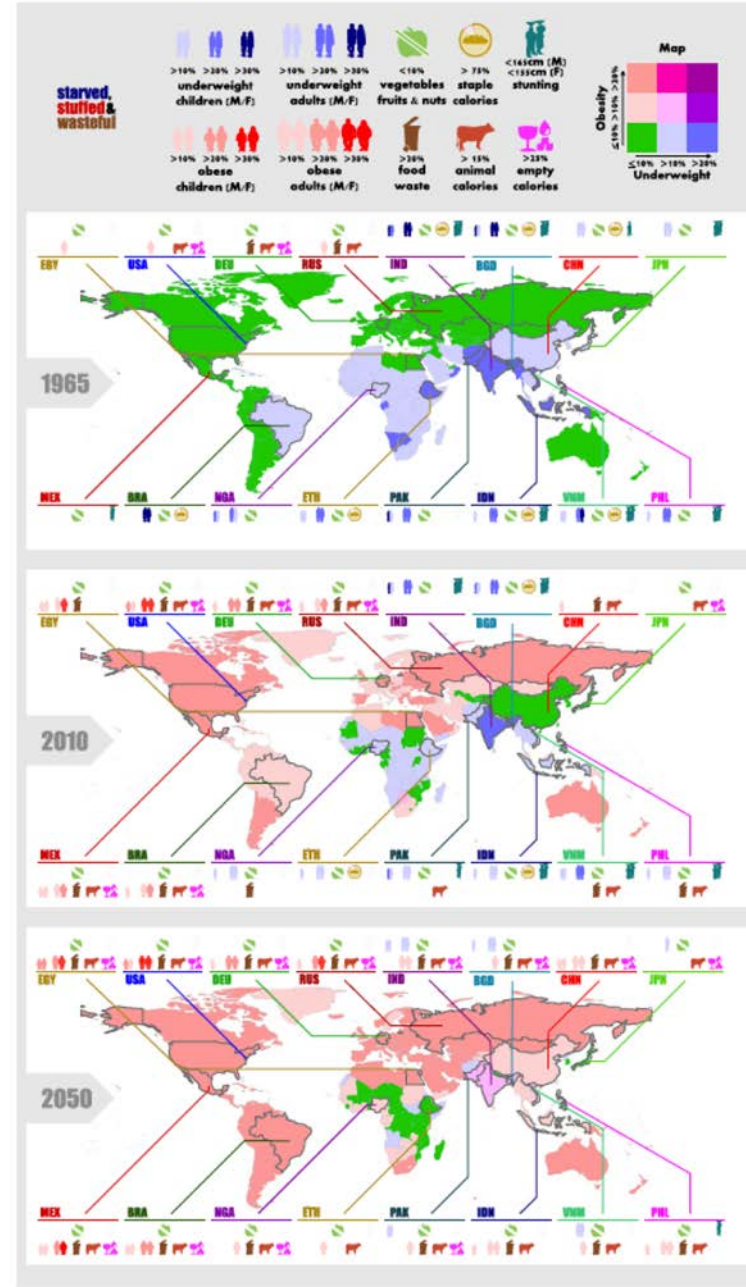
scientific reports

nature
research

The ongoing nutrition transition thwarts long-term targets for food security, public health and environmental protection

Benjamin Leon Bodirsky^{1,2,3}, Jan Philipp Dietrich¹, Eleonora Martinelli¹, Antonia Stenstad¹, Prajal Pradhan¹, Sabine Gabrysch^{1,2,3}, Abhijeet Mishra^{1,6}, Isabelle Weindl¹, Chantal Le Mouél⁴, Susanne Rolinski¹, Lavinia Baumstark¹, Xiaoxi Wang^{1,5}, Jillian L. Waid¹, Hermann Lotze-Campen^{1,5,6} & Alexander Popp¹

营养转型阻碍了粮食安全、公共健康及环境保护的长期目标的达成



Global nutrition dynamics: the world is shifting rapidly toward a diet linked with noncommunicable diseases

Barry M Popkin [✉](#)

The American Journal of Clinical Nutrition, Volume 84, Issue 2, August 2006, Pages 289–298.

全球营养动态





WORLD HEALTH ORGANIZATION

GLOBAL STRATEGY ON DIET, PHYSICAL ACTIVITY AND HEALTH

全球策略- 饮食、运动及健康





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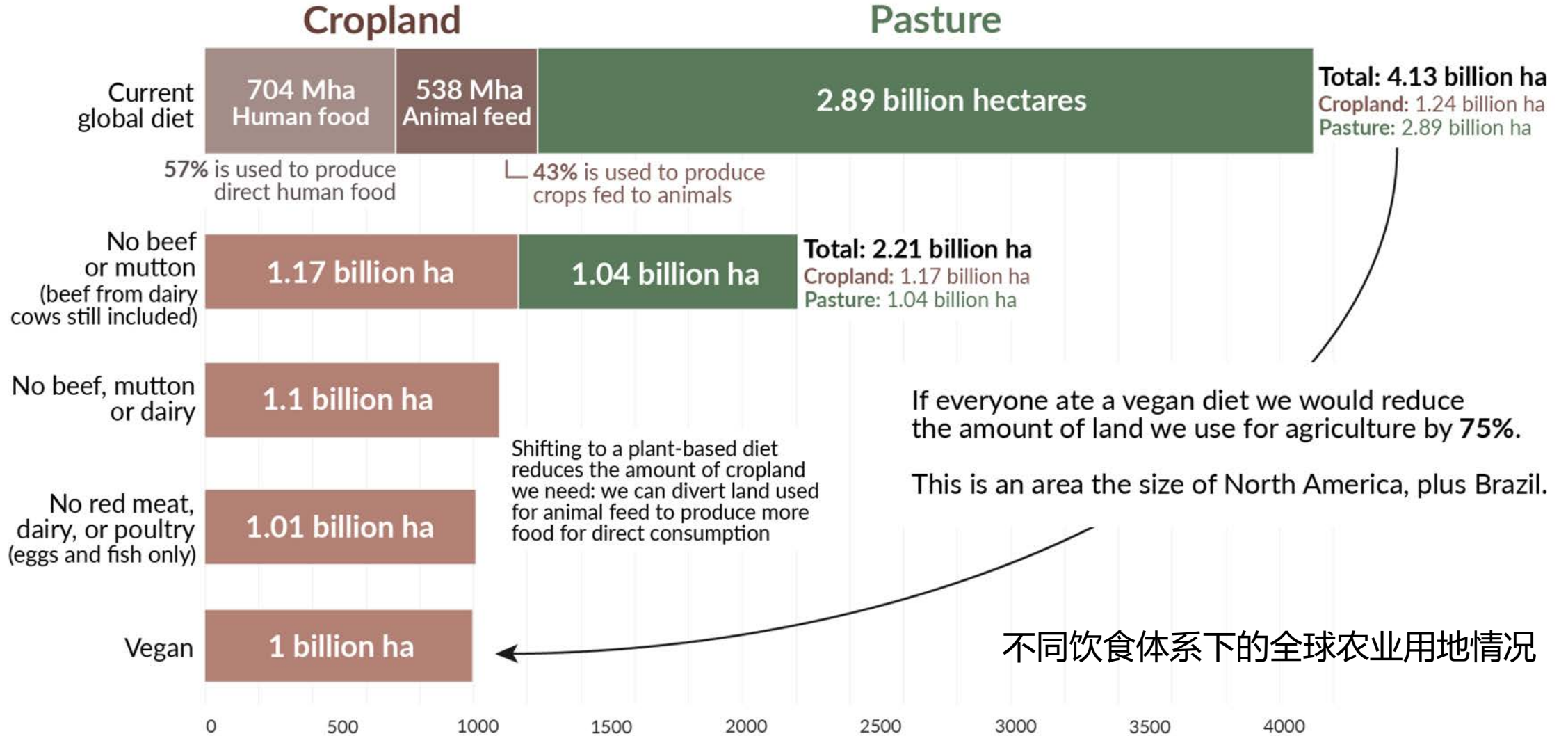
14 JUL 2021 | STORY | NATURE ACTION

Food systems hold key to ending world hunger

粮食体系是消除饥饿的关键

Global land use for agriculture across different diets

Global agricultural land use is given for cropland and pasture for grazing livestock assuming everyone in the world adopted a given diet. This is based on reference diets that meet calorie and protein nutritional requirements.



Data Source: Joseph Poore & Thomas Nemecek (2018). Reducing food's environmental impacts through producers and consumers. *Science*.

OurWorldinData.org – Research and data to make progress against the world's largest problems.

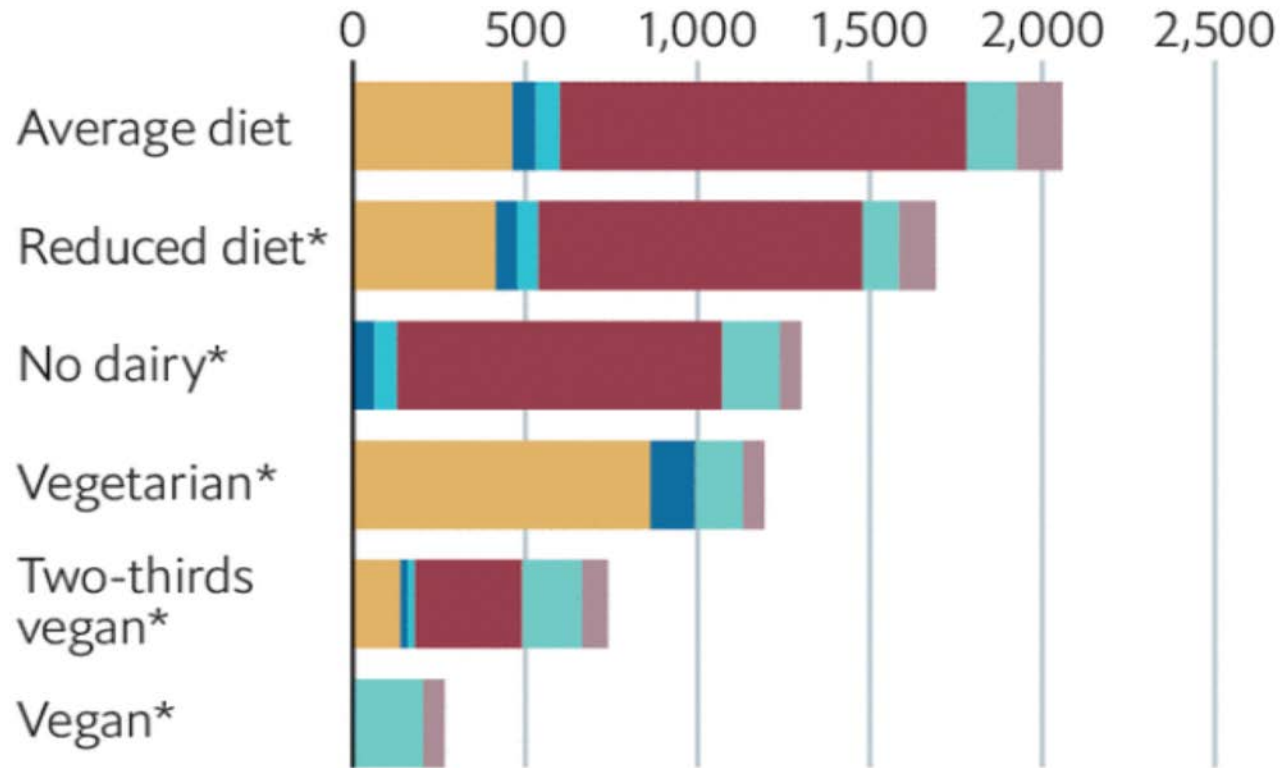
Licensed under CC-BY by the author Hannah Ritchie.

United States, greenhouse-gas footprint

美国温室气体排放足迹

kg of CO₂ equivalent per person per year

Dairy Eggs Fish Meat Plant matter Sugars & oils



Sources: "Multiple health and environmental impacts of foods", by Clark et al., PNAS; "Country-specific dietary shifts to mitigate climate and water crises", by Kim et al., Global Environmental Change

*Vegetables=1 †Simulated diet, to reach 2,300 calories per day

The Economist

Nov 15th 2019

JAFSCD

*Journal of Agriculture,
Food Systems, and
Community Development*

VIEWPOINT

**Just Transition for agriculture? A critical step in
tackling climate change**

农业公正转型？ 应对气候变化的关键一步

Charlotte E. Blattner *

Harvard Law School



Posted March 30, 2023 at 5:00 am by [Debbie Berkowitz](#) and [Patrick Dixon](#)

An average of 27 workers a day suffer amputation or hospitalization, according to new OSHA data from 29 states

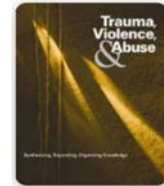
Meat and poultry companies remain among the most dangerous



Slaughterhouses and Increased Crime Rates

An Empirical Analysis of the Spillover From “The Jungle” Into the Surrounding Community

Amy J. Fitzgerald
University of Windsor
Linda Kalof
Thomas Dietz
Michigan State University



The Psychological Impact of Slaughterhouse Employment: A Systematic Literature Review

Jessica Slade¹ and Emma Alleyne¹

丛林

厄普顿·辛克莱



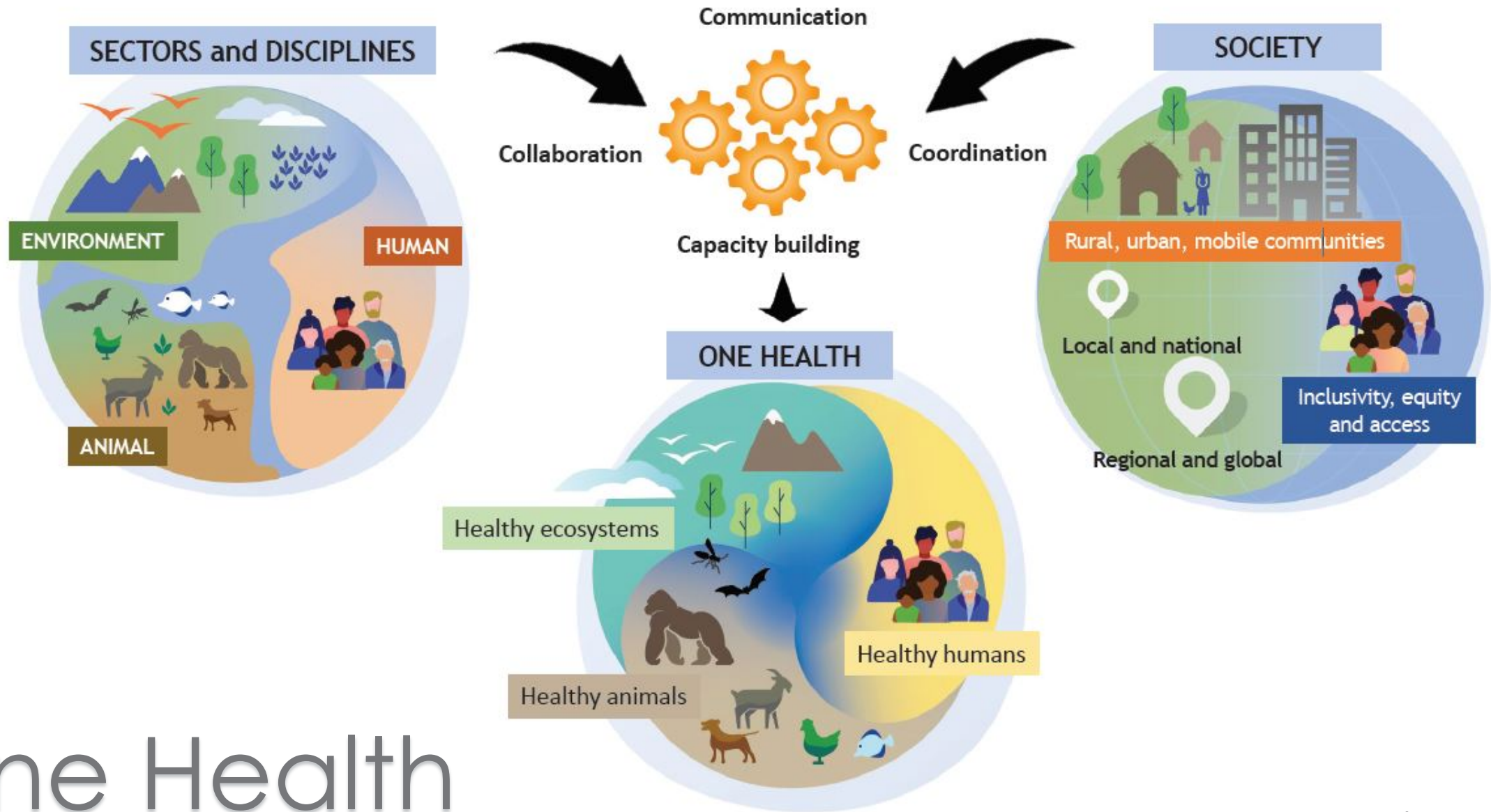
Shared vulnerability
同样的脆弱性

Crises offer opportunities for bold solutions.

“危” “机” 共存



One Health



Just One Health

One Health 中的公正元素

Hope Ferdowsian
CABI One Health (2023)
<https://doi.org/10.1079/cabionehealth.2023.0005>



COMMENTARY



A silent call for a socially and ecologically just One Health approach

Hope Ferdowsian^{1,2}

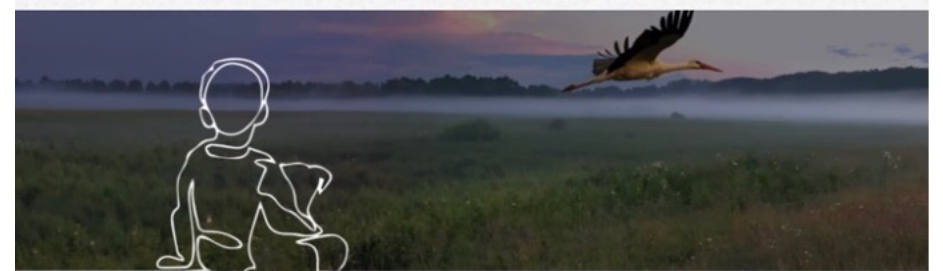
Harvard Public Health

OPINION

'Silent Spring' still holds lessons for keeping the planet, and ourselves, healthy

Public health leaders must take an ecological view of health to stave off future pandemics and sustain a healthy world, says physician Hope Ferdowsian.

By Hope Ferdowsian • January 24, 2023



Ecological Justice and the Right to Health

READ MORE >

Editorial by Hope R. Ferdowsian







Thank you.

PhoenixZonesInitiative.org

