# Health In Harmony

**Reimagining health systems to operationalize our interdependence with nature**

Health In Harmony

Are global health strategies capable of securing long-term, human health outcomes if our health systems are not built to secure *both* human health *and* ecosystem health outcomes?

Photo: Tim Laman

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**Solutions exist to the crises of global warming and the collapse of nature: We just have to listen**

Why scenarios on global warming lack adequate consideration of the rights and views of indigenous peoples

By KINARI WEBB - JONATHAN JENNINGS

PUBLISHED MAY 14, 2019 7:00PM (EDT)

# HIH approach

A disruptive & data-proven solution to the climate and nature crises

The HIH model leverages the pioneering Radical Listening methodology to center rainforest community solutions to return improved human health, forest health, biodiversity, and drawdown of CO2

Health In Harmony

# Impact Data 2008-2018

- **Stanford University** analyzed the first ten years of data from Health In Harmony's proof-of-concept program in Borneo, published in **Proceedings of the National Academy of Sciences** (Jones IJ, MacDonald AJ, Hopkins SR, Lund AJ, Liu ZY et al. 2020)

**90%** drop in illegal logging households

**70%** reduction in forest loss

**$65 million** in carbon emissions averted

**21,000 hectares** of secondary forest regrown

**2,500** critically endangered Bornean orangutans protected

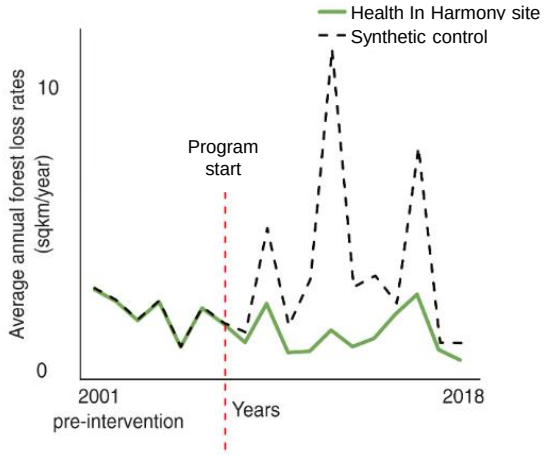
**67%** drop in infant mortality

PNAS October 26, 2020

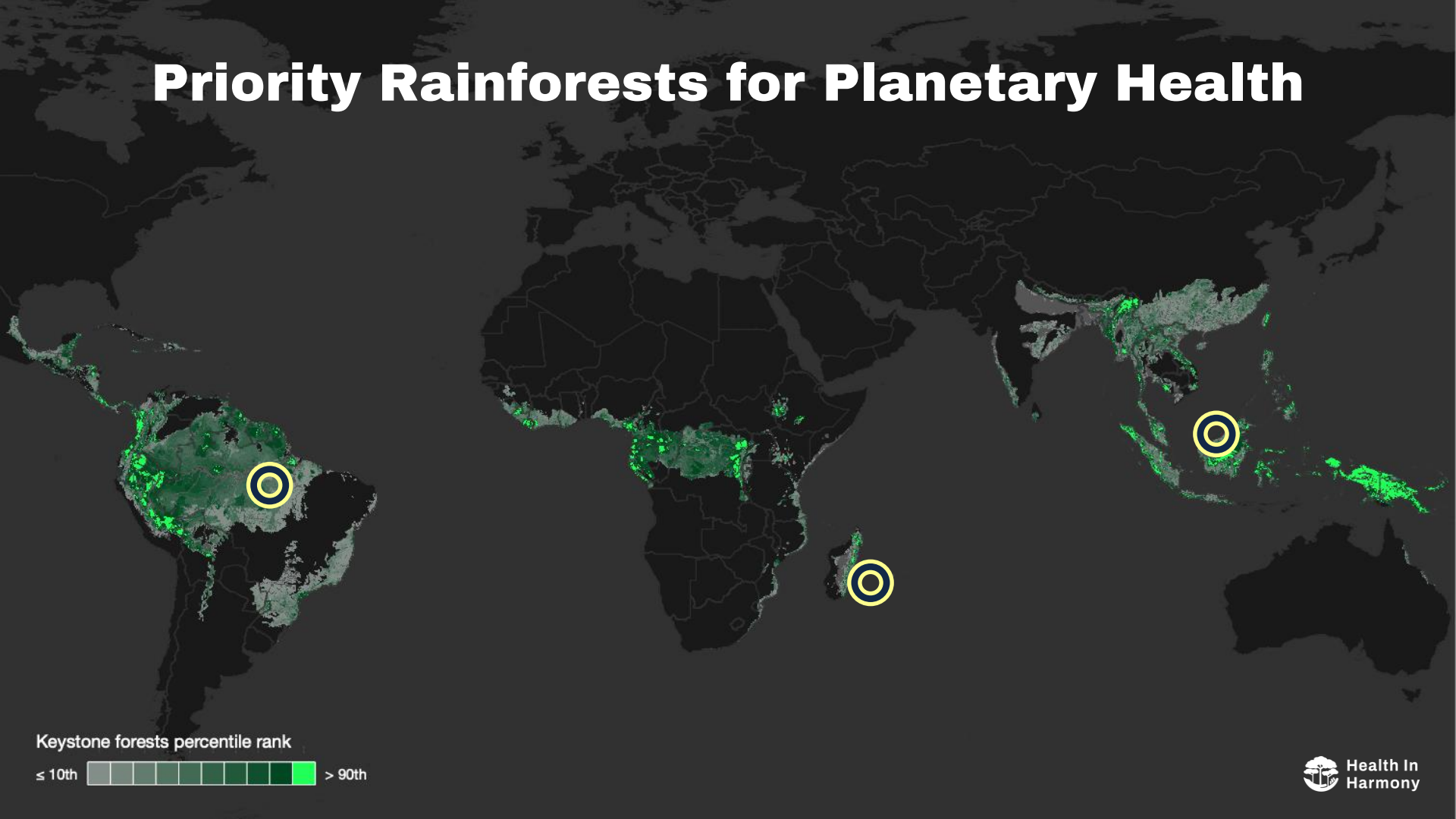
RESEARCH ARTICLE | BIOLOGICAL SCIENCES

**Improving rural health care reduces illegal logging and conserves carbon in a tropical forest**

**Forest Loss in Gunung Palung National Park**



# Priority Rainforests for Planetary Health

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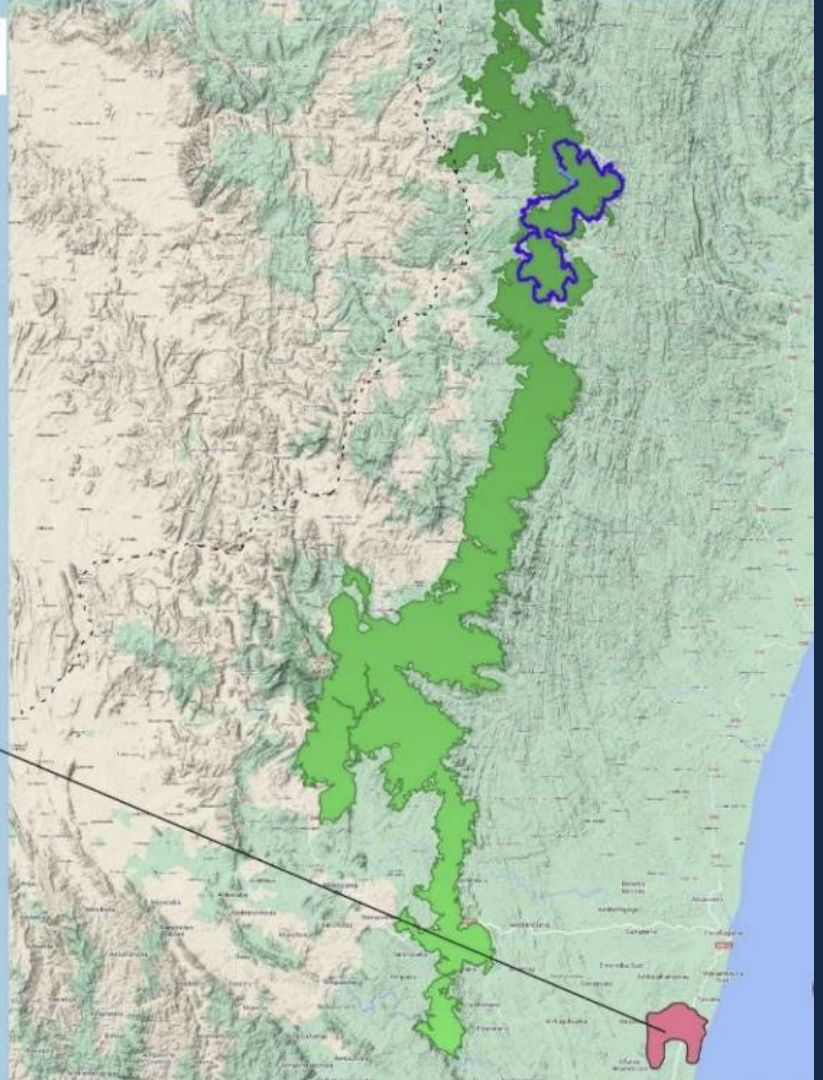
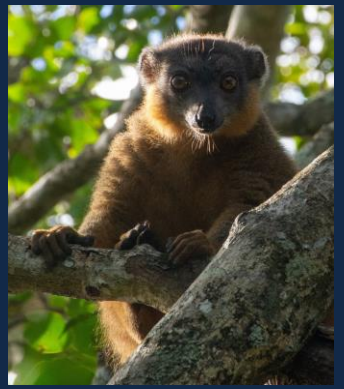
# MANOMBO STUDY SITE

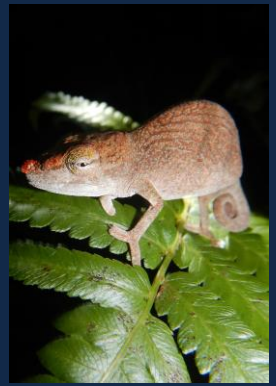
Health In Harmony



Manombo
RNFPark
Corridor Forest

0 600 1200 km

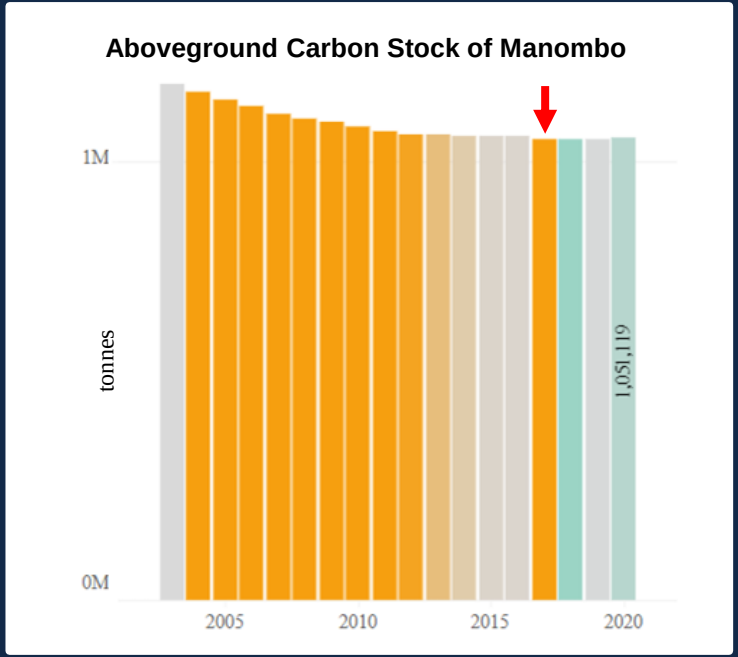




# Deforestation may be reversing in Manombo

- **Woodwell Climate Research Center** analyzed forest carbon by satellite.

- The graph shows consistent deforestation from 2003 to 2017, and signs of forest regeneration from 2018 to 2020.



# MADAGASCAR: One Health to prevent disease

## QUESTION

- Do community-designed solutions for forest conservation in Manombo, 1) restore biodiversity, 2) improve wildlife and human health, and 3) reduce the risk of zoonotic spillover?

## COLLABORATORS

- Univ of Antananarivo, Harvard T.H. Chan School of Public Health, Univ of Chicago, Zoo New England, Centre ValBio, US National Institutes of Health

## METHODOLOGY

- Ten-year, longitudinal, prospective cohort study
- Forest ecology and biodiversity assessments
- Wildlife health exams and pathogen sequencing
- Human health analyses in a stepped-wedge design to understand the effects of reforestation, forest fire prevention, water quality, vector habitat reduction, and spillover

HARVARD T.H. CHAN SCHOOL OF PUBLIC HEALTH

THE UNIVERSITY OF CHICAGO

Health In Harmony

ZOO NEW ENGLAND
Franklin Park Zoo • Stone Zoo

NIH National Institutes of Health
Turning Discovery Into Health

CENTRE VALBIO

Health In Harmony

"**Health In Harmony's innovative model has clear global health implications.** Health and climate can and should be addressed in unison, and done in coordination with and respect for local communities."

— Michele Barry, Director of the Center for Innovation in Global Health, Stanford University.

*HIH at COP26 - winner of the 2020 UN Global Climate Action Award.*

**Award-winning model**

2022: *World Economic Forum Top Innovator*

2022: *Finalist St Andrews Prize for Environment*

2021: *United Nations Climate Action Award*

2021: *WHO Case Study on HIH Madagascar*

**HIH programs meet 12 of 17 UN Sustainable Development Goals (SDGs) to deliver a step change for the biosphere, society and economy.**

*"This work demonstrates an actionable framework for aligning cross-sectoral goals…urgently needed to advance effective policy efforts aimed at achieving the United Nations' SDGs. Because the SDGs are deeply interconnected, there is both opportunity and urgency to address multiple targets at once. This work offers a case study of how programs can be designed, implemented, and evaluated to address health and conservation goals simultaneously."* PNAS 2020.

Health In Harmony
Regenerating rainforests by listening to communities