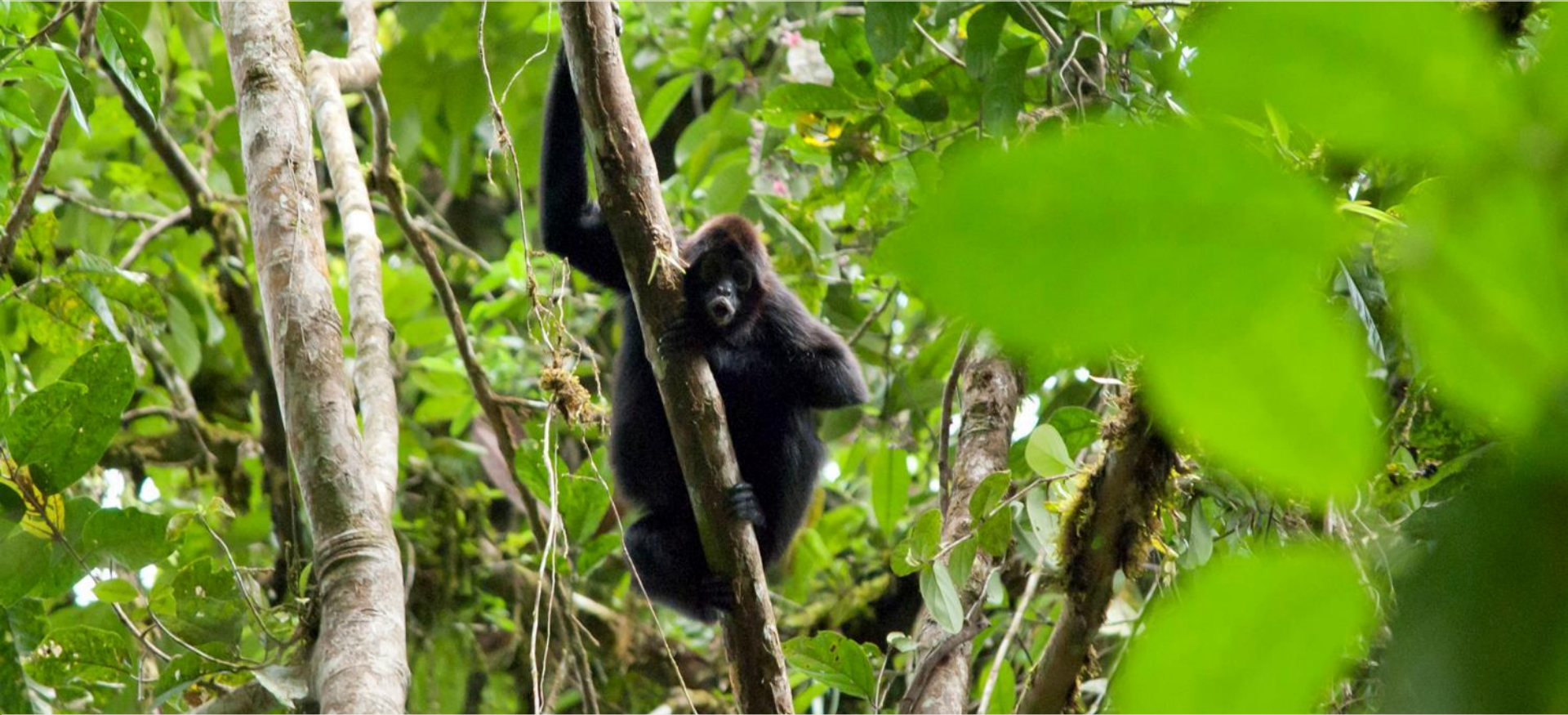


Mainstreaming 'paraecology'



Civic Science and the transition to sustainability

US

University of Sussex

Dr Mika Peck, July 2021: Evidence for Action: Aligning the Climate and SDG Agendas

International Policy



National Governments

Ministry of Education

Ministry of Health

Ministry of Energy

Ministry of Agriculture!

Ministry ?

Treasury



Local Communities / Grassroots

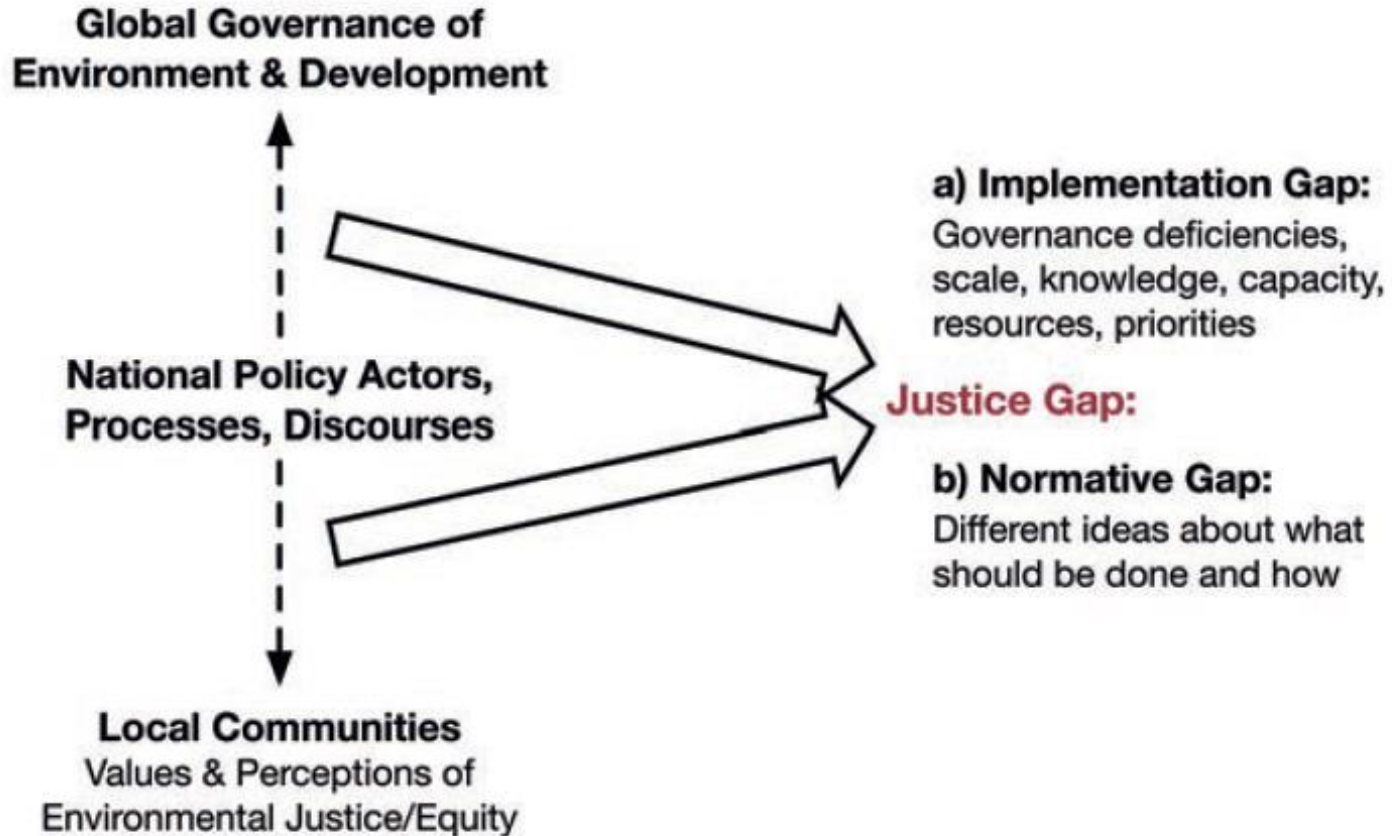
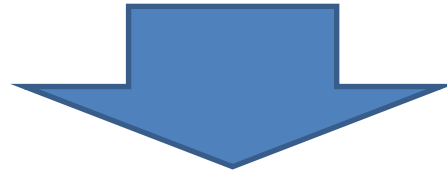


FIGURE 2.2 The justice gap between global and national ecosystem service governance and local communities comprises normative differences and implementation deficiencies.

International Policy



National Governments

Ministry of Education



Ministry of Health



Ministry of Energy



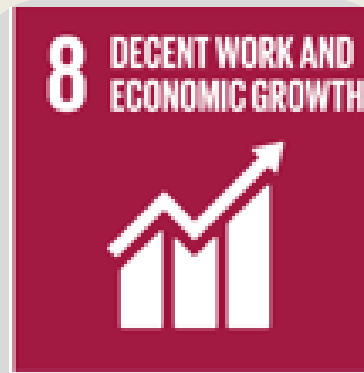
Ministry of Agriculture!



Ministry ?



Treasury



Siloed Policies

Unequal Power

Conflicting policies

Bottom up solutions ignored



Local Communities / Grassroots

Conflicting policies
Environmental Justice conflict

Environmental activist murders double in 15 years

Death toll almost half that of US troops killed in Afghanistan and Iraq since 2001, data shows

The suppl

Nathalie Butt ^{1,2*},

Every year, more people are killed in overseas deployments in Afghanistan and Iraq, and the countries with the highest deaths over this period. These deaths, >230 were related to environmental activists, are closely linked to patterns of violence and need to identify who may be at risk in the chain of violence need to



▲ Michelle Campos, whose father, grandfather and teacher were killed in September 2015 for opposing mining in Mindanao, the Philippines. Photograph: Tulda Productions

dom and Australia on environmental deforestation week to four per week in the sectors. Of 683 total deaths and corruption indices and violence and seek for justice at both ends of the

WICKED PROBLEM.

noun | wi-kəd | prā-bləm

a problem that is difficult or impossible to solve because of incomplete, contradictory, and changing requirements that are often difficult to recognize.

International Policy

National Governments

Local Communities / Grassroots

What should we do at this level?

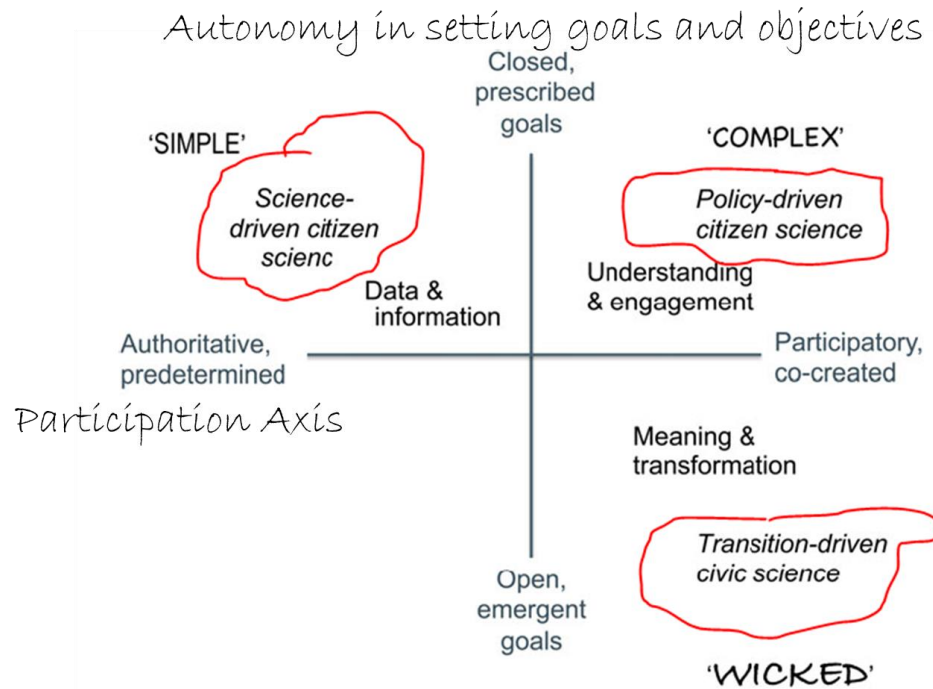
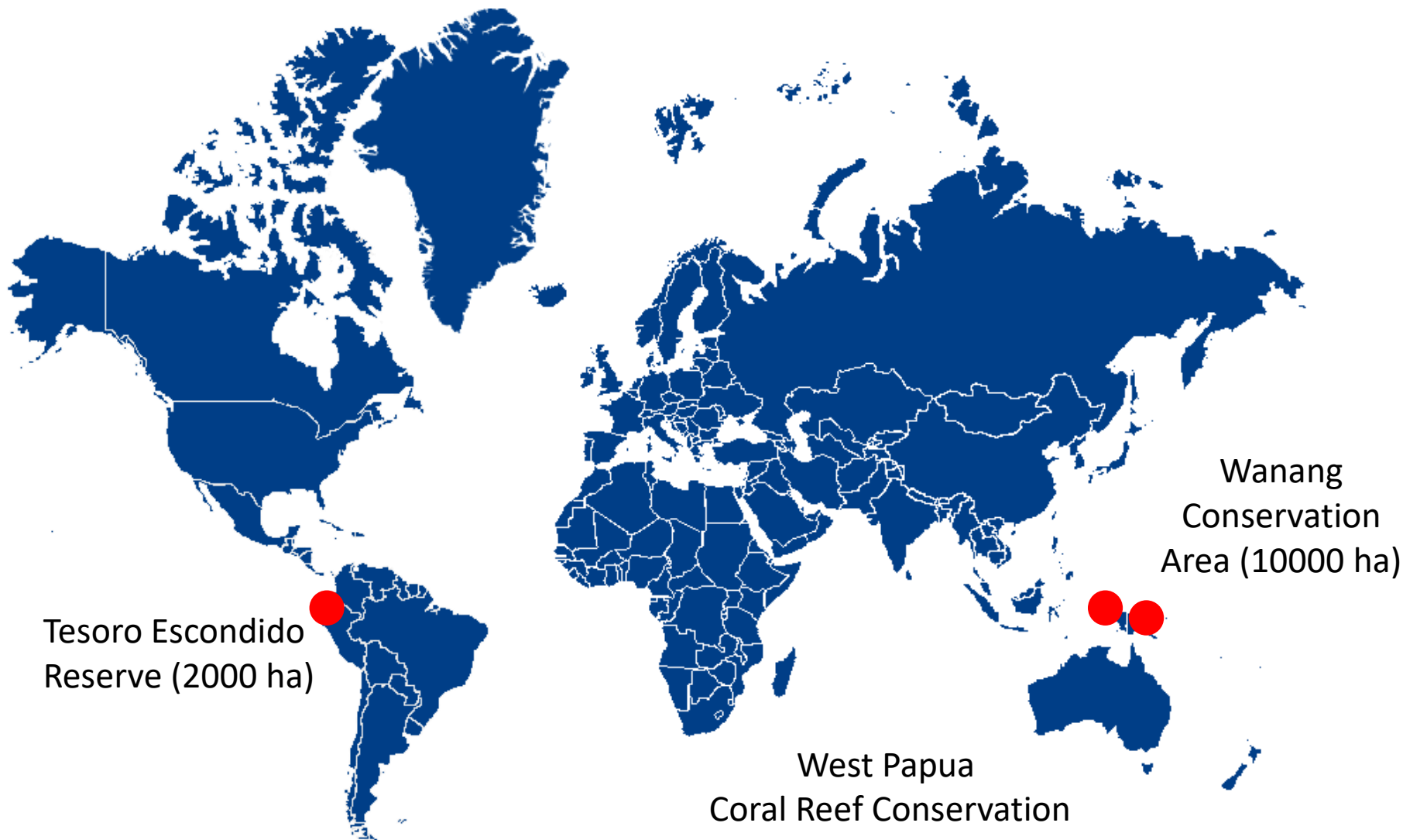


Figure 2. A heuristic of citizen science based on Wals and Jickling (2008).

Civic Science: the 'Paraecologist Model'

- 'parabiologist / paraecologist model' built around research process identifies and engages with local 'champions' who play crucial roles in change processes.
- Generates significant social and economic benefits to the local community.





Tesoro Escondido, Ecuador (Choco Biodiversity Hotspot)



Brown-headed spider monkey
Credit: Juan de Dios Morales

Strong community links key to the success and legacy of the PRIMENET Project

The Darwin Initiative PRIMENET project was funded in 2005

Our 'community research hub' model differs from traditional research stations as researchers live in accommodation provided by the community, ensuring




© Proyecto Washu



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Tesoro Escondido Reserve www.tesororeserve.org

HOME VOLUNTEERING RESEARCH GALLERIES WORKSHOPS CONTACT BLOG 

RESERVA
TESORO ESCONDIDO

About us

The Tesoro Escondido Spider Monkey Reserve was born as an initiative to conserve the critically endangered Ecuadorian brown-headed spider monkey *Ateles fusciceps fusciceps*, in Northwestern Ecuador, which is one of the top 25 most endangered primates globally.



Women Make Science: Ecuador's Hidden Treasure

Scientists work to protect Ecuador's endangered spider monkeys while supporting local women.

19 Feb 2020 09:09 GMT [Ecuador](#) [Environment](#) [Science](#) [Women's Rights](#) [Wild Animals](#)



[Al Jazeera Feb 2020](#)



SUSTAINABLE DEVELOPMENT GOALS

17 GOALS TO TRANSFORM OUR WORLD

1 NO POVERTY

2 ZERO HUNGER

3 GOOD HEALTH AND WELL-BEING

4 QUALITY EDUCATION

5 GENDER EQUALITY

6 CLEAN WATER AND SANITATION

7 AFFORDABLE AND CLEAN ENERGY

8 DECENT WORK AND ECONOMIC GROWTH

9 INDUSTRY, INNOVATION AND INFRASTRUCTURE

10 REDUCED INEQUALITIES

11 SUSTAINABLE CITIES AND COMMUNITIES

12 RESPONSIBLE CONSUMPTION AND PRODUCTION

13 CLIMATE ACTION

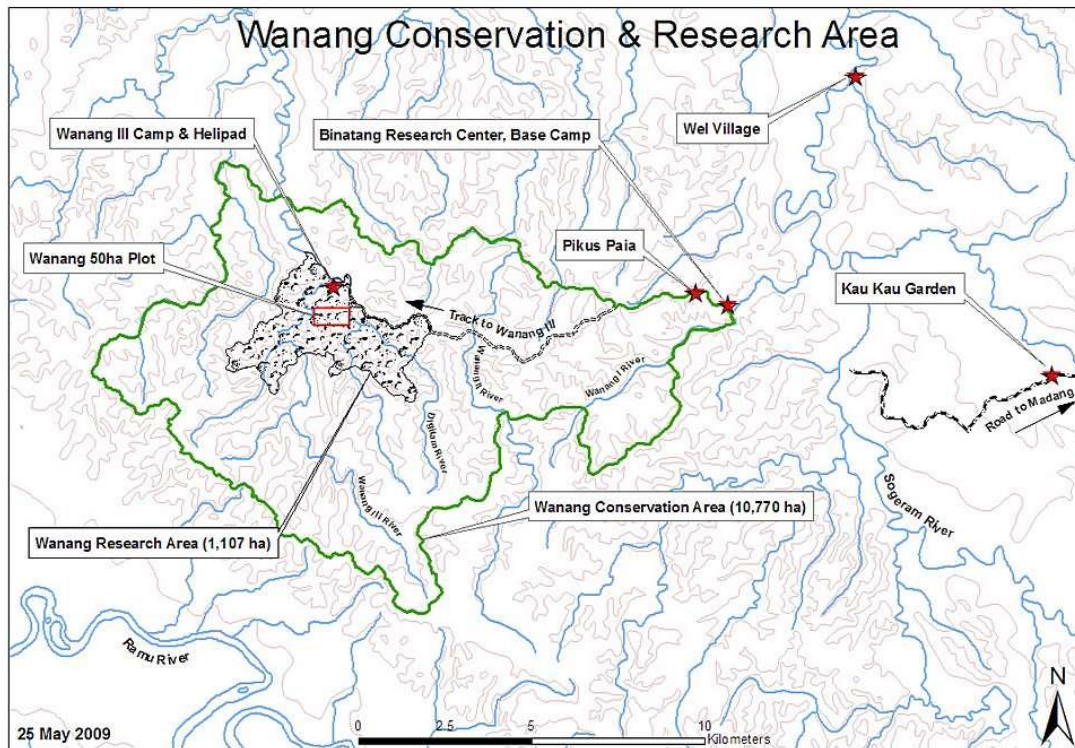
14 LIFE BELOW WATER

15 LIFE ON LAND

16 PEACE, JUSTICE AND STRONG INSTITUTIONS

17 PARTNERSHIPS FOR THE GOALS

SUSTAINABLE DEVELOPMENT GOALS

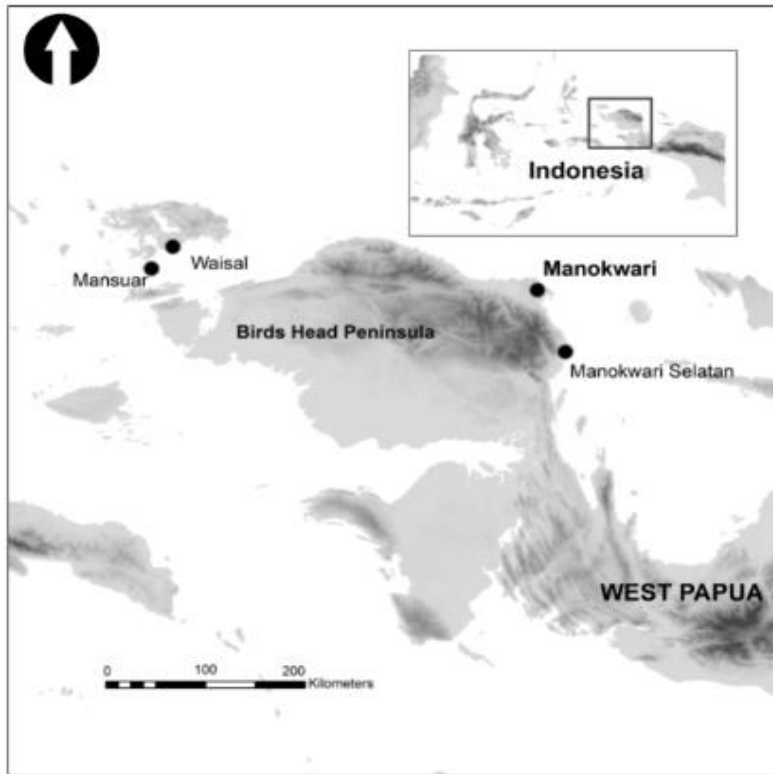


Understanding & enhancing health in the vulnerable rainforests of PNG: Logging roads mean health...

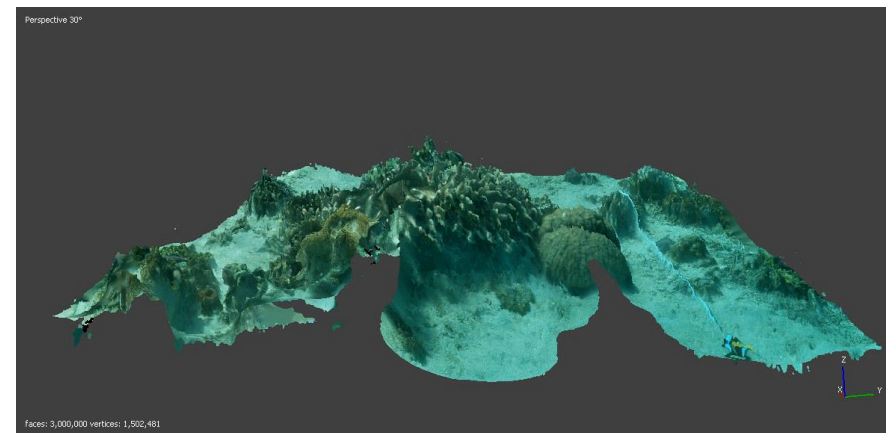


Marine Paraecologists? Coral reef and sustainable fisheries

Integrating anthropological methods and innovative research tools for community-based coral reef and fisheries conservation in West Papua, Indonesia (2020 – 2021)



Sustainability Hub
West Papua



Paraecologists: science and social change

- Help researchers **access** geographical areas, research topics or gain access to marginalised groups
- Incorporate **local knowledges** and **scientific approaches**
- **Coproduction of solutions**
- **Empower Transition**





Key Points



1. Paraecologist model (Conservation) - **Multiple SDG goals** attained through co-development of solutions
2. **Empowerment** of marginalised communities
3. Effective SDG synergies for rainforest communities and conservation organisations through **health**
4. Long term financial and training support of **‘Sustainability hubs’/ ‘Observatories’/ ‘Ecological Health Centres’** needed to *prove and disseminate alternative development approaches* and *hold governments to account*

