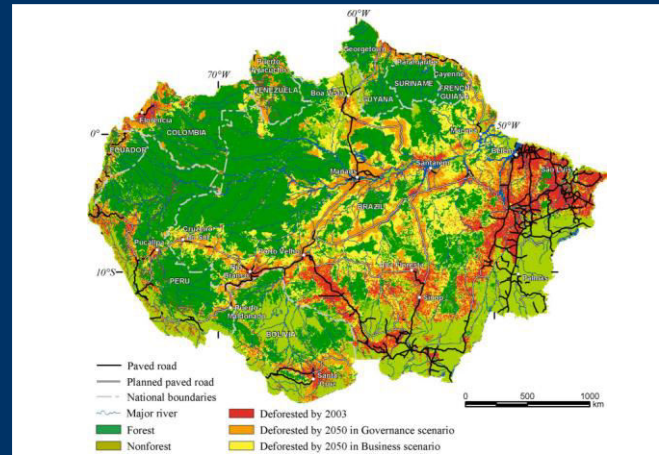
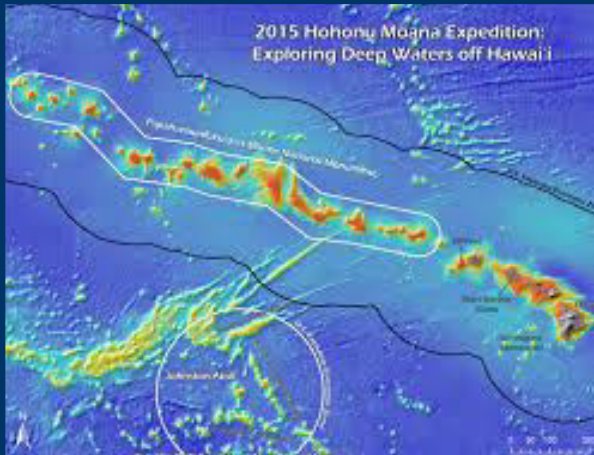
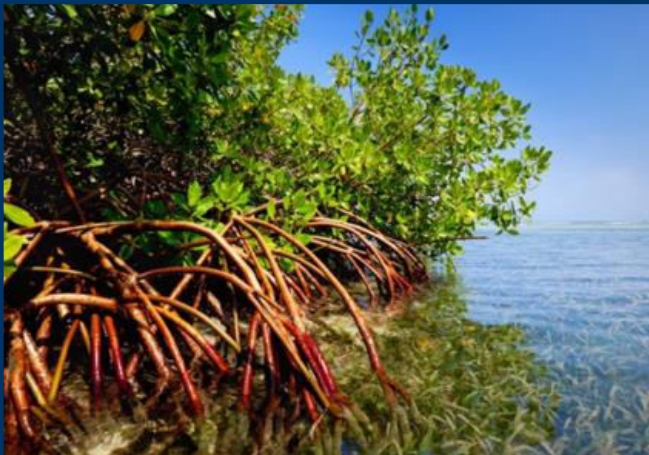
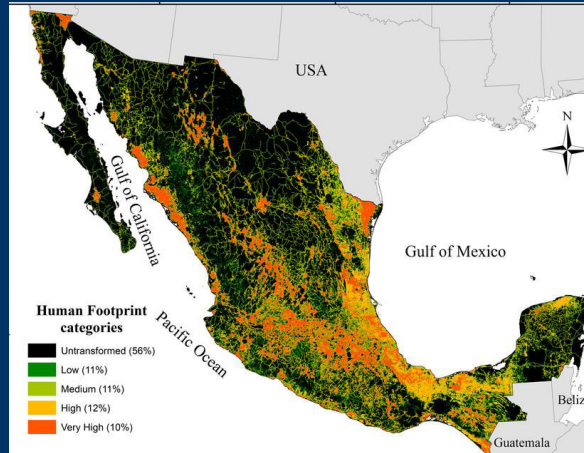
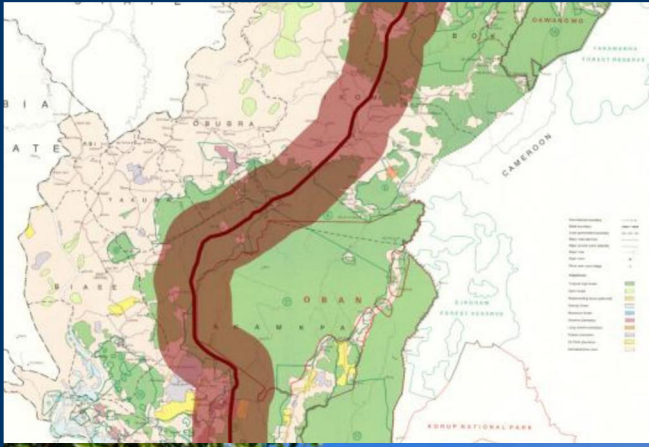


Protected Areas as Natural Climate and Development Solutions

@JamisonErvin



Empowered lives.
Resilient nations.

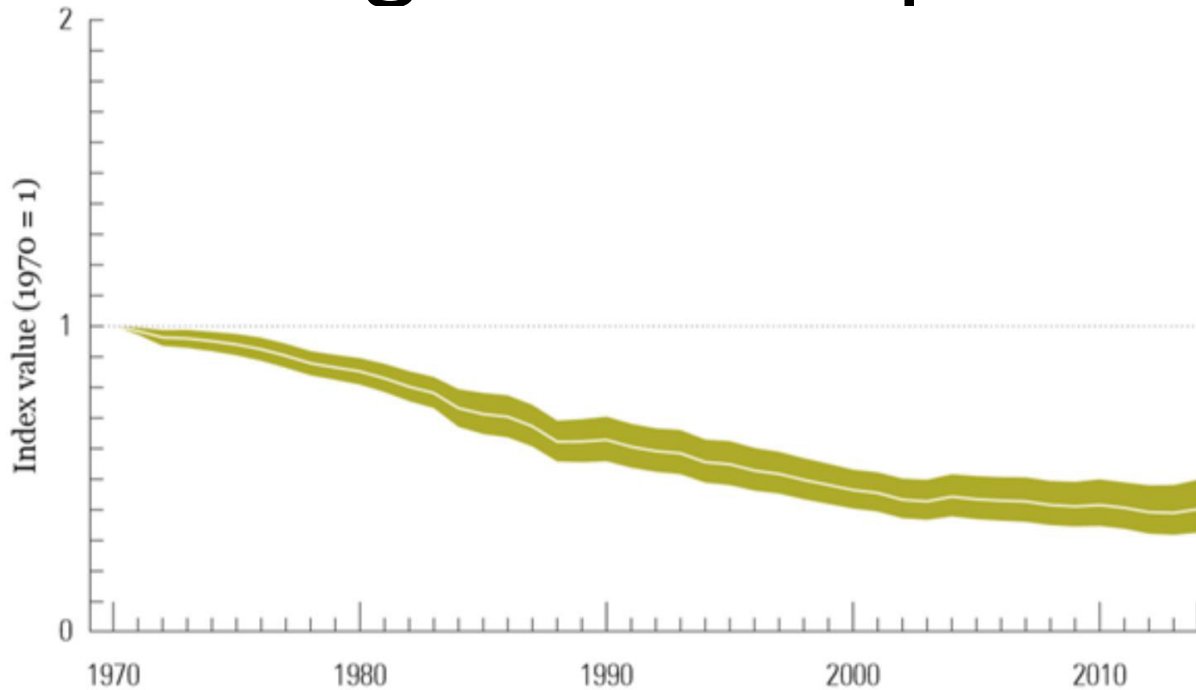


1. WE ARE WITNESSING AN UNRAVELING OF THE PLANET



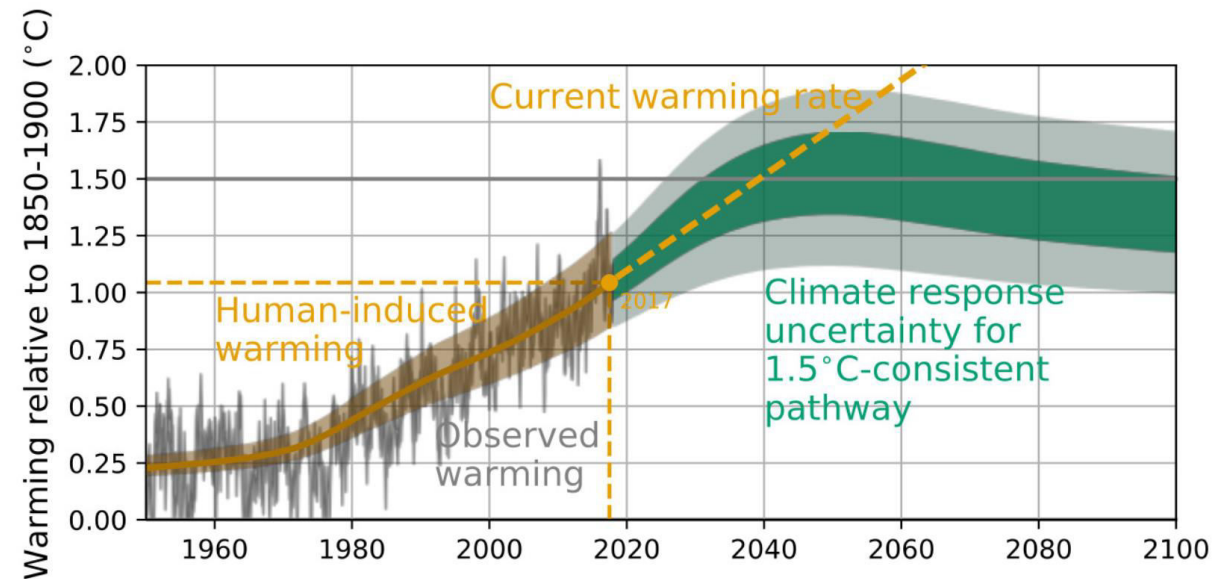
FOUR TRENDS THAT DEFINE OUR FUTURE

Species decline from Living Planet Report



WWF, 2018. Living Planet Report

Atmospheric CO2 from 1.5c Climate Report



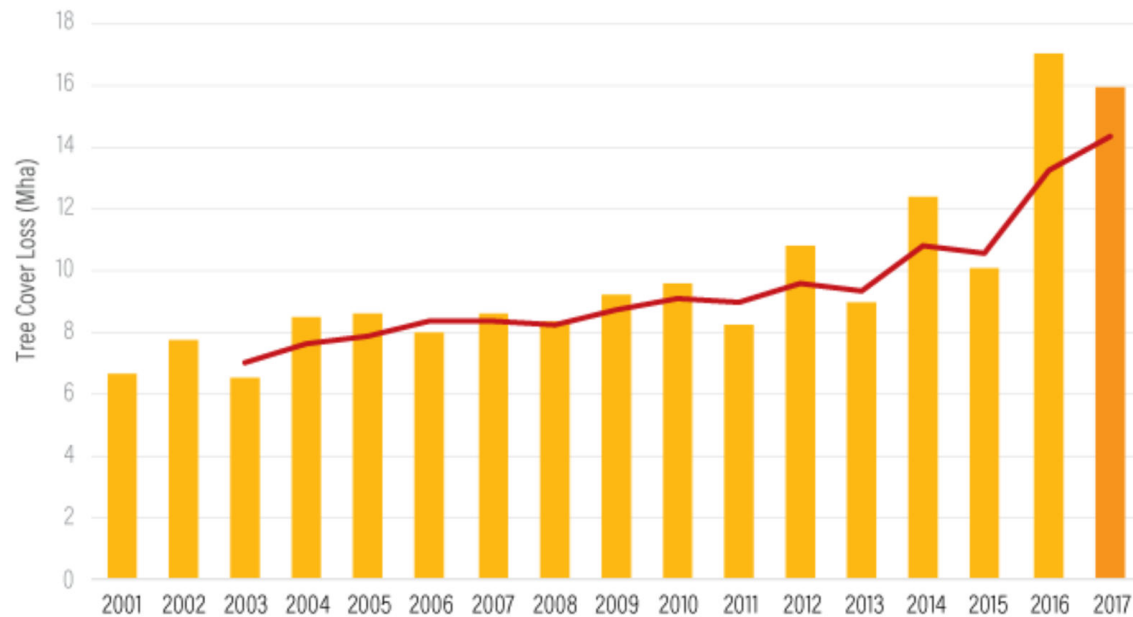
Source: IPCC Special Report on Global Warming of 1.5°C, Chapter 1 – Technical Annex 1.A, Fig. 12

IPCC. 2018. UNFCCC 1.5 C Report.

FOUR TRENDS THAT DEFINE OUR FUTURE

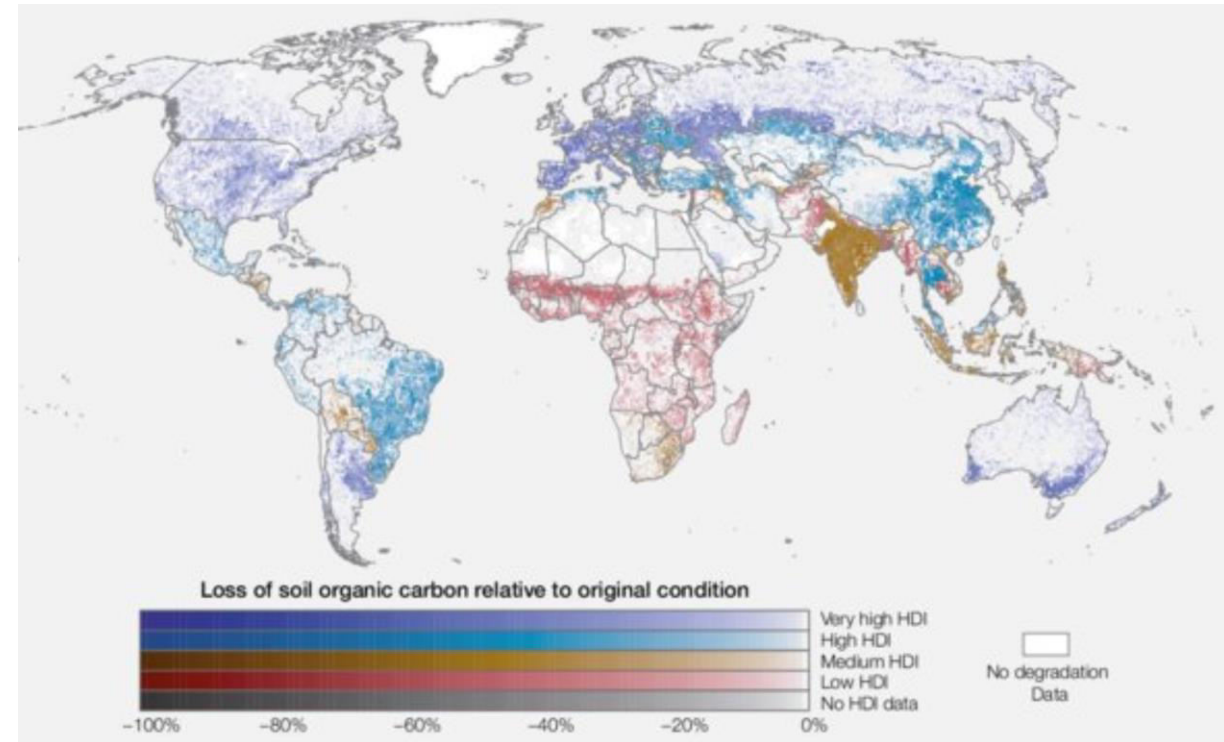
Trends in tropical tree cover loss

Tropical Tree Cover Loss



WRI, 2018. Global Forest Report

Loss of soil organic carbon



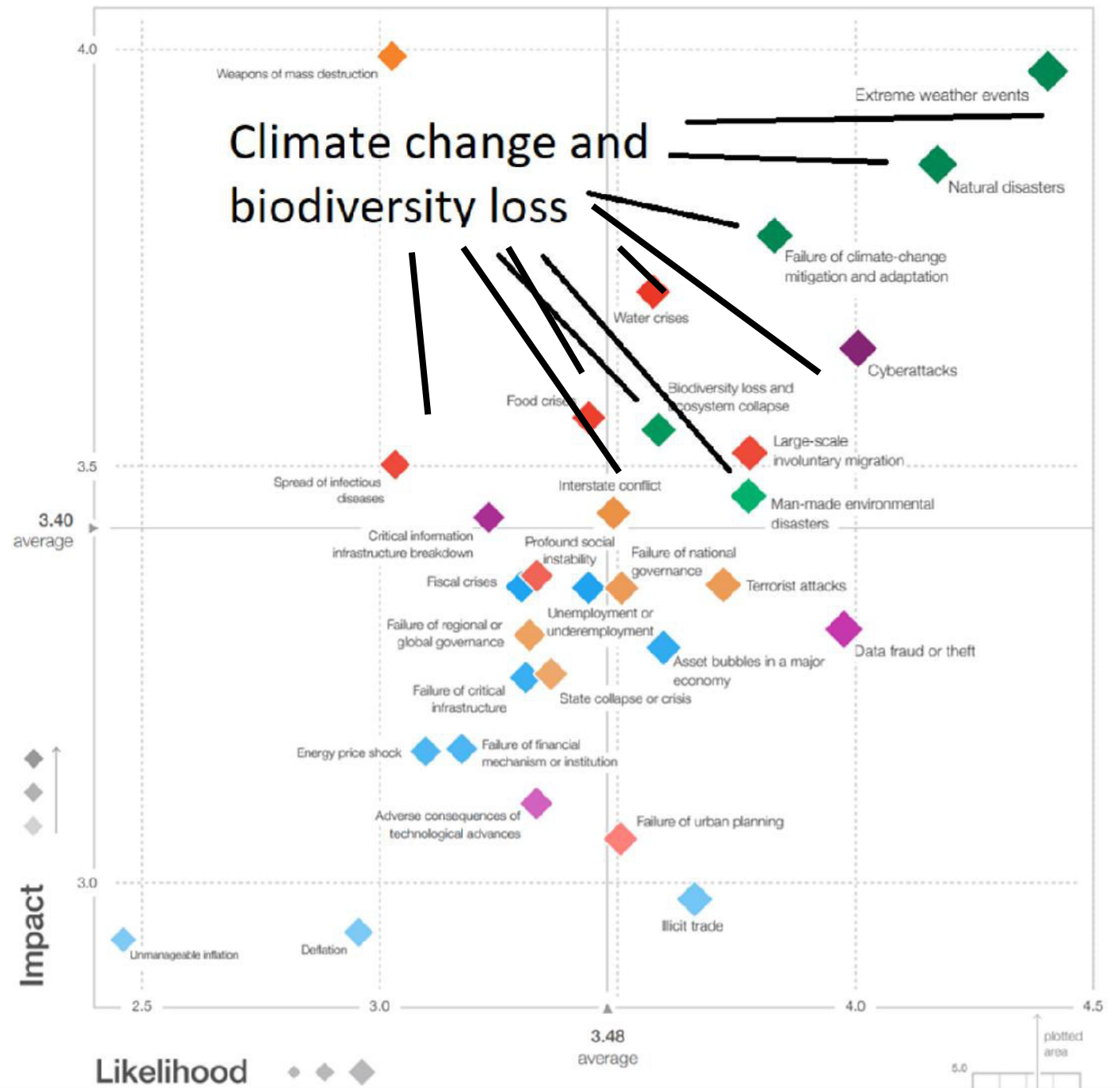
IPBES, 2018. Global Land Degradation Report

2. THIS UNRAVELING HAS ENORMOUS CONSEQUENCES



CONSEQUENCES FOR HUMANITY

- 10 of 16 global risks are linked to climate change and/or biodiversity loss



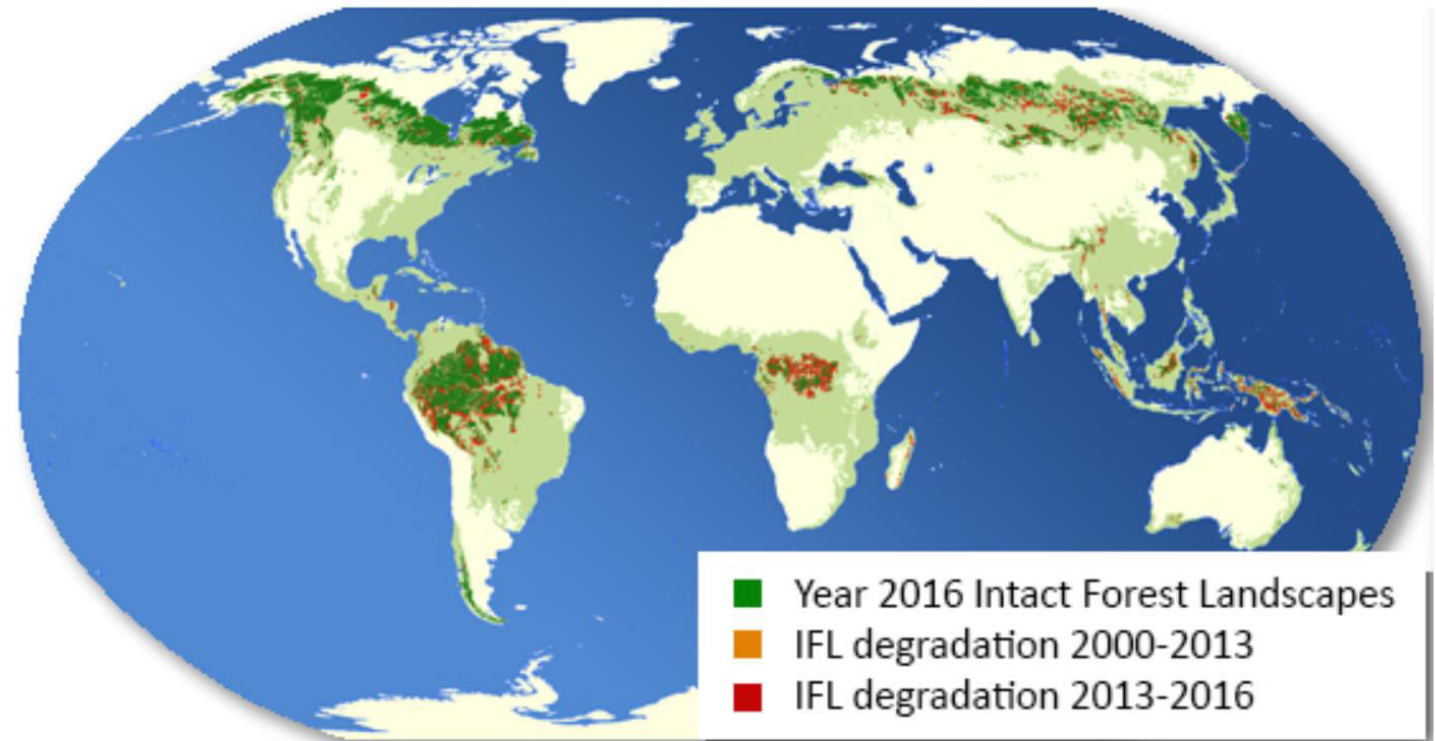
3. IT'S WORSE THAN WE THINK



WE ARE LOSING FOREST INTACTNESS

- The world lost 7.2% of intact forest landscapes since 2006 (2 x California)
- There are >50 million forest fragments
- Tropical forests are flipping **from carbon sinks to carbon sources**

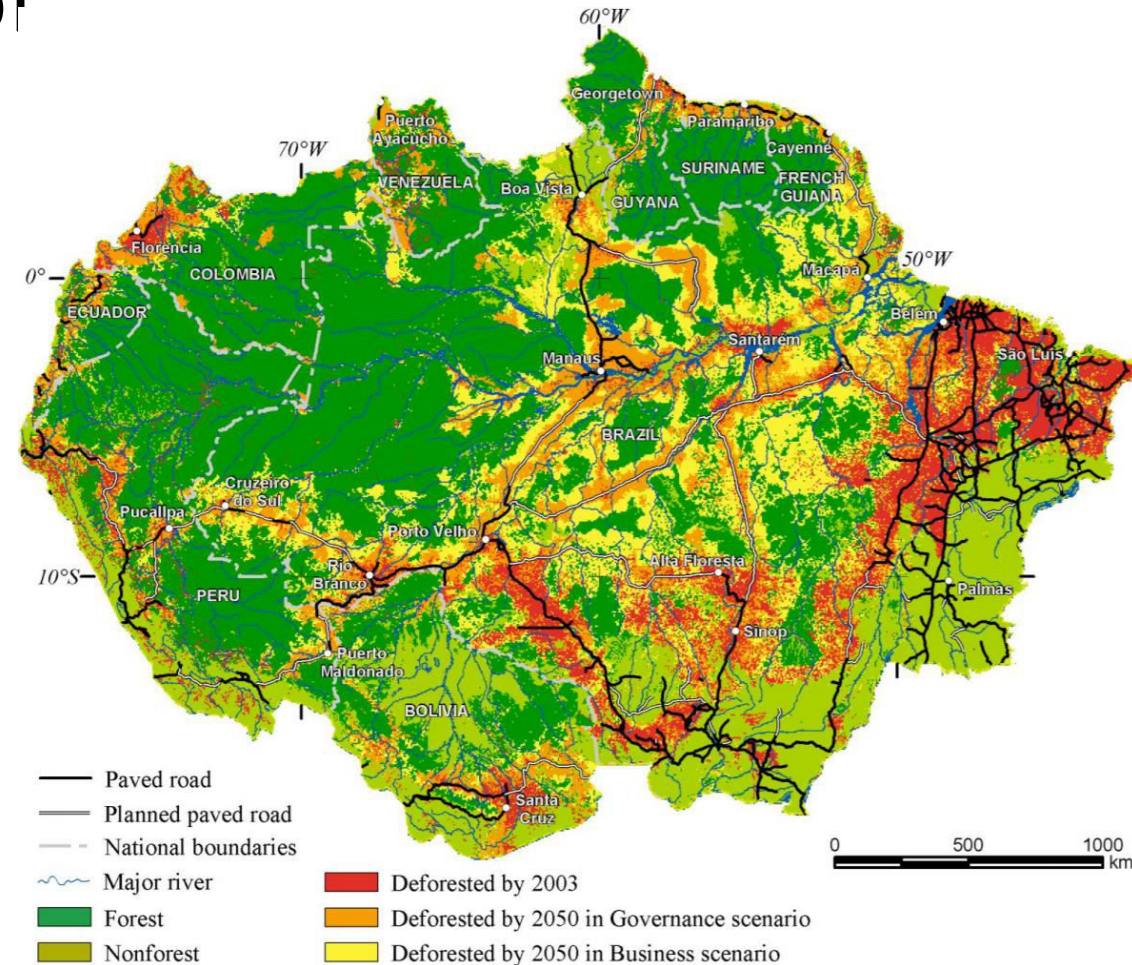
World's Intact Forest Landscapes, 2000-2013



[Download the IFL map in GIS/Google Earth format](#)

THE FUTURE IS COMING

- By 2050, 25 million kilometers of new roads will be built
- By 2030, food demand will increase by 35%, driving deforestation
- By 2050, average patch size will decrease from 17 ha to .25 ha
- We are fast approaching **critical climate tipping points**




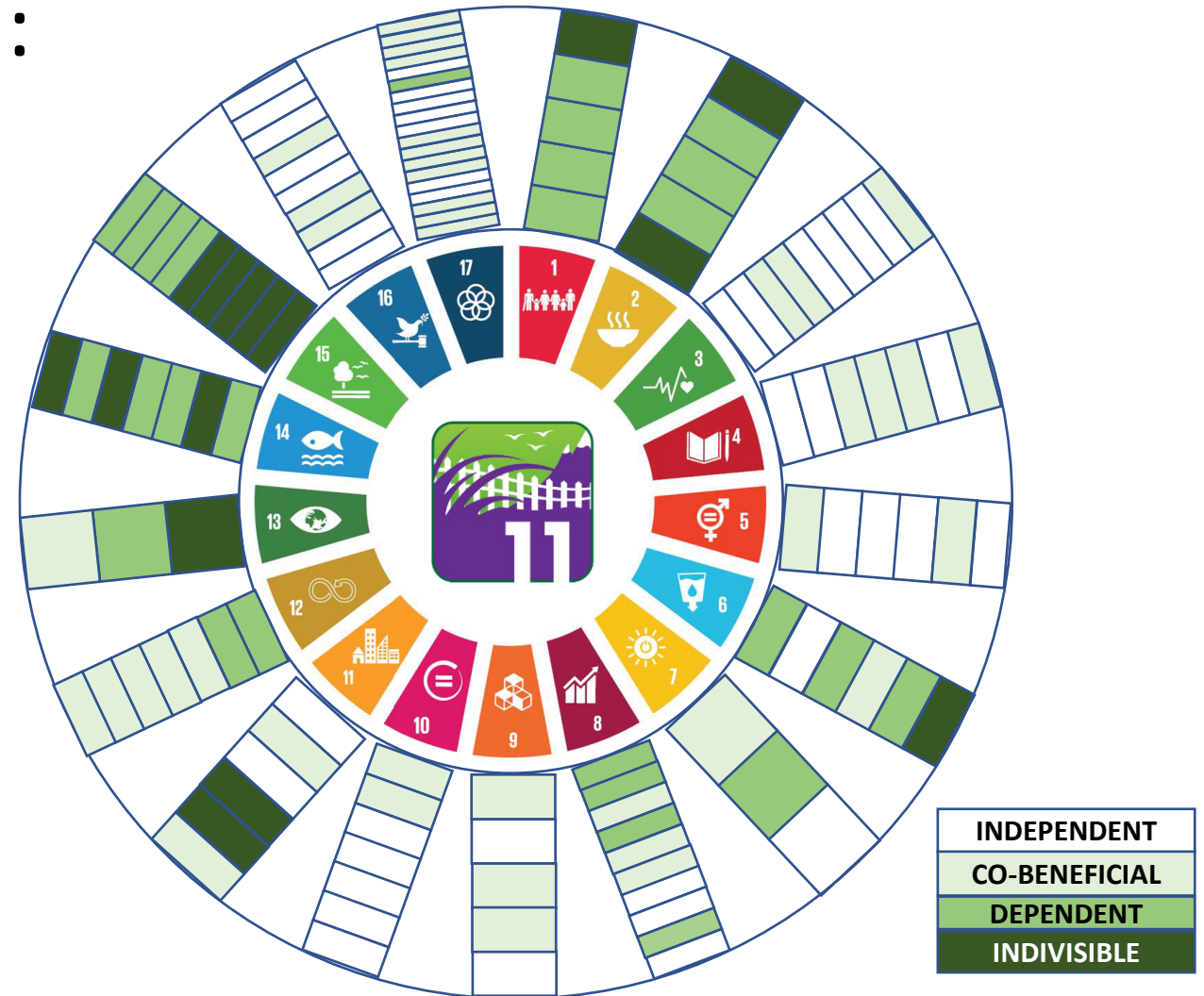
4. WE HAVE EFFECTIVE SOLUTIONS AT HAND



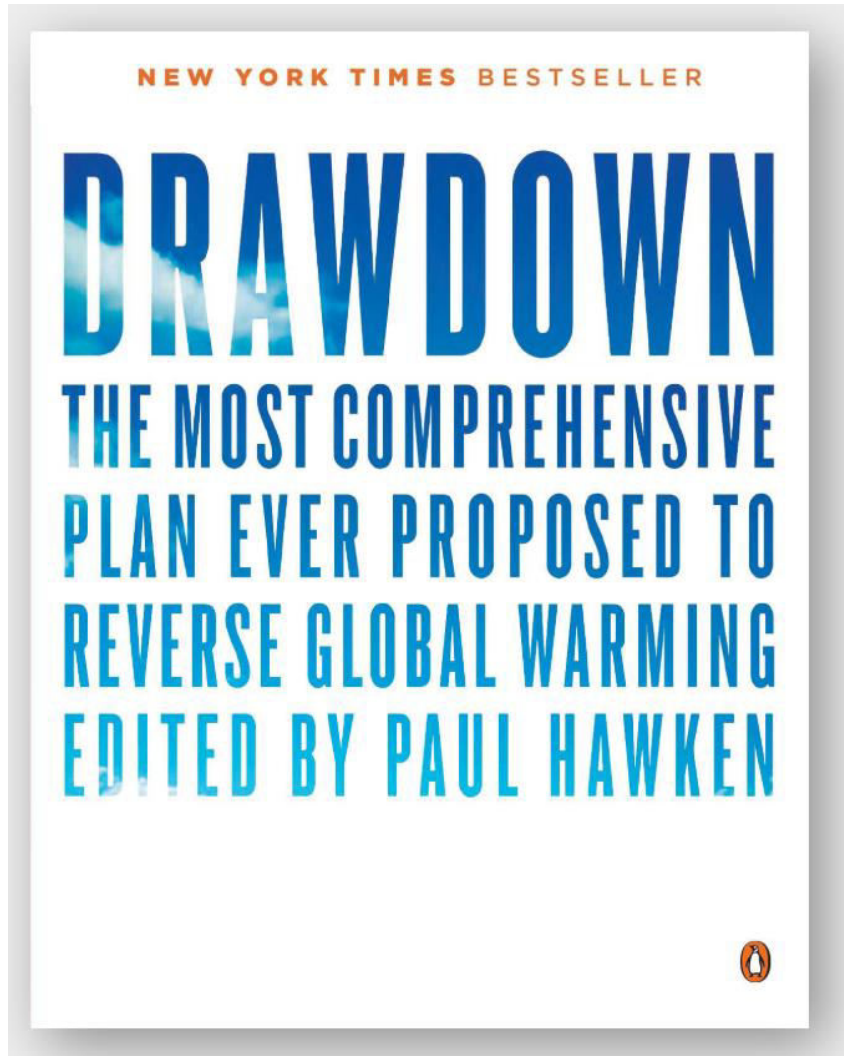
PROTECTED AREAS SOLVE CLIMATE-RELATED PROBLEMS

Protected areas strengthen:

- Food security 
- Water security 
- Livelihoods and jobs   
- Health crises  
- Peace  
- Security from disasters 
- Energy 
- Carbon sequestration  



PROTECTED AREAS ARE A CLIMATE SOLUTION

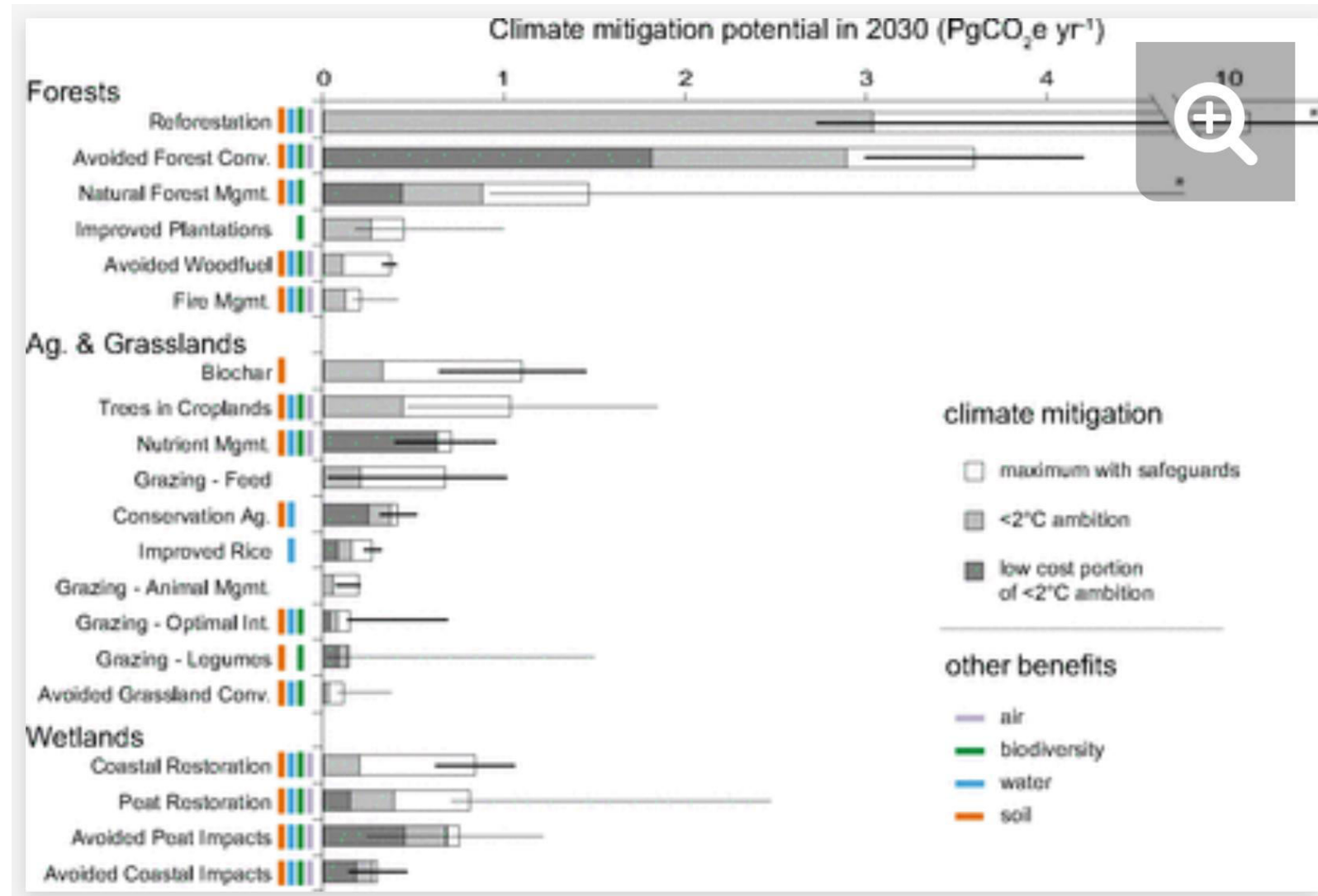


- Protecting tropical forests is the 5th most effective climate solution (61 gt/yr)
- Protecting temperate forests are #12
- Protecting peatlands are #13
- Restoring forests is #15

PROTECTED AREAS ARE A CLIMATE SOLUTION

Protecting forests, grasslands and wetlands can provide **>1/3 of our climate mitigation solution**

Griscom et al. 2017. Natural Climate Solutions. PNAS

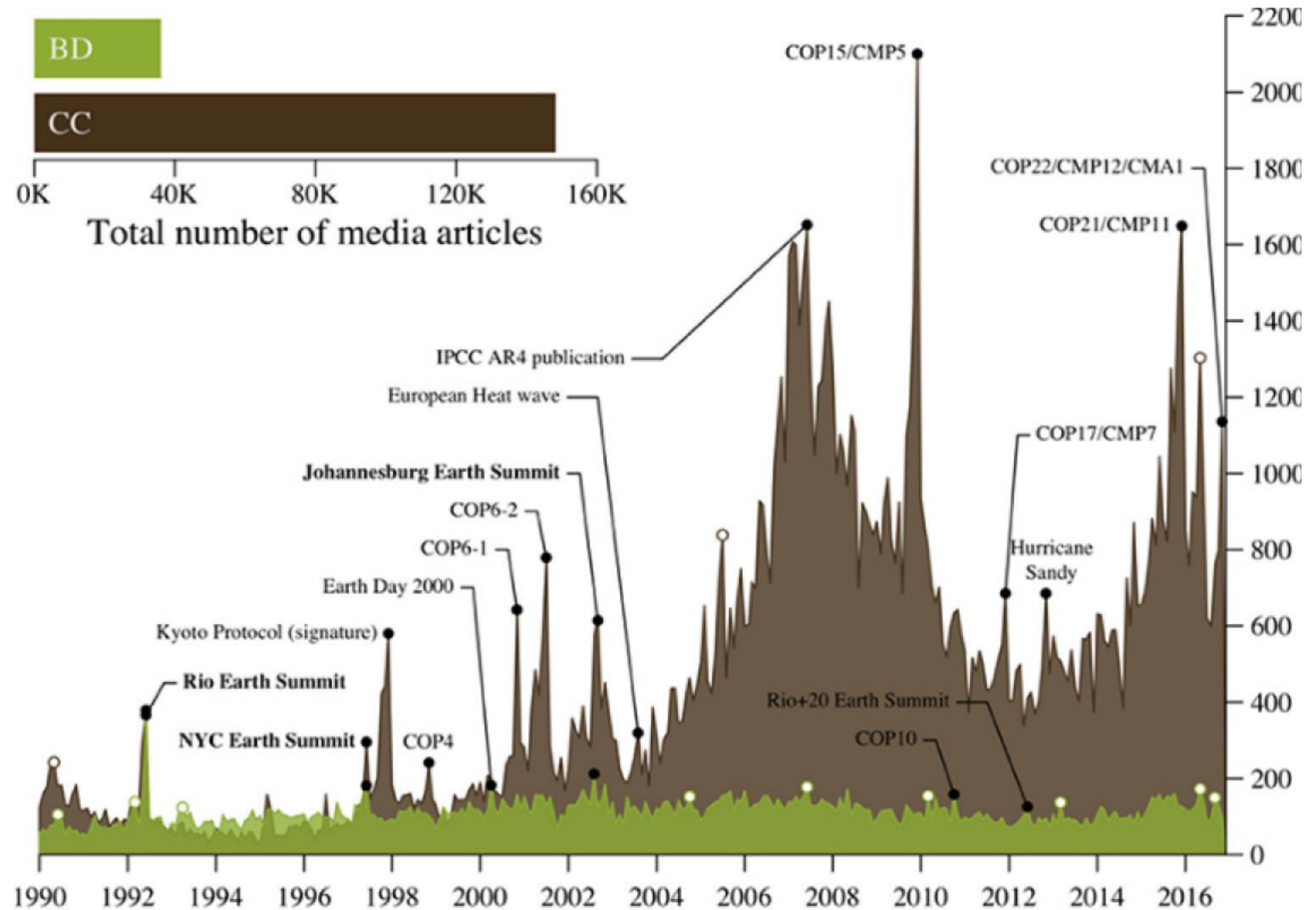


5. BIODIVERSITY IS NOT RECOGNIZED AS A CLIMATE SOLUTION



BIODIVERSITY AND CLIMATE CHANGE

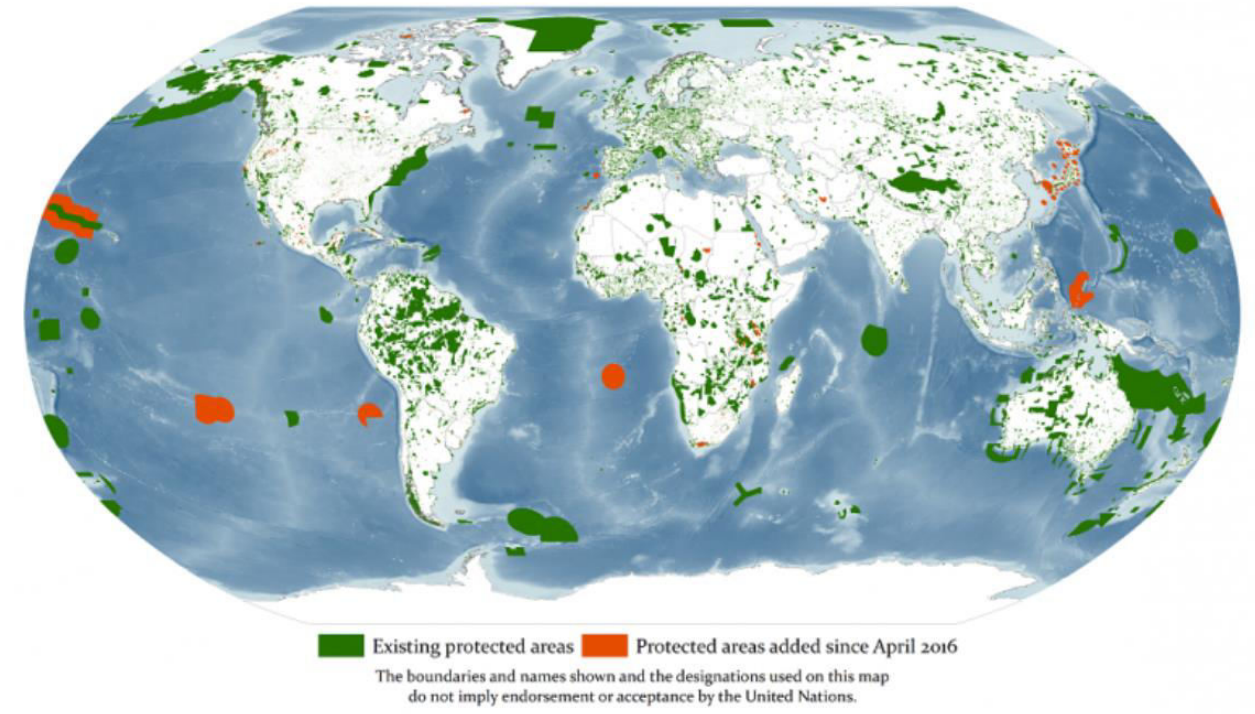
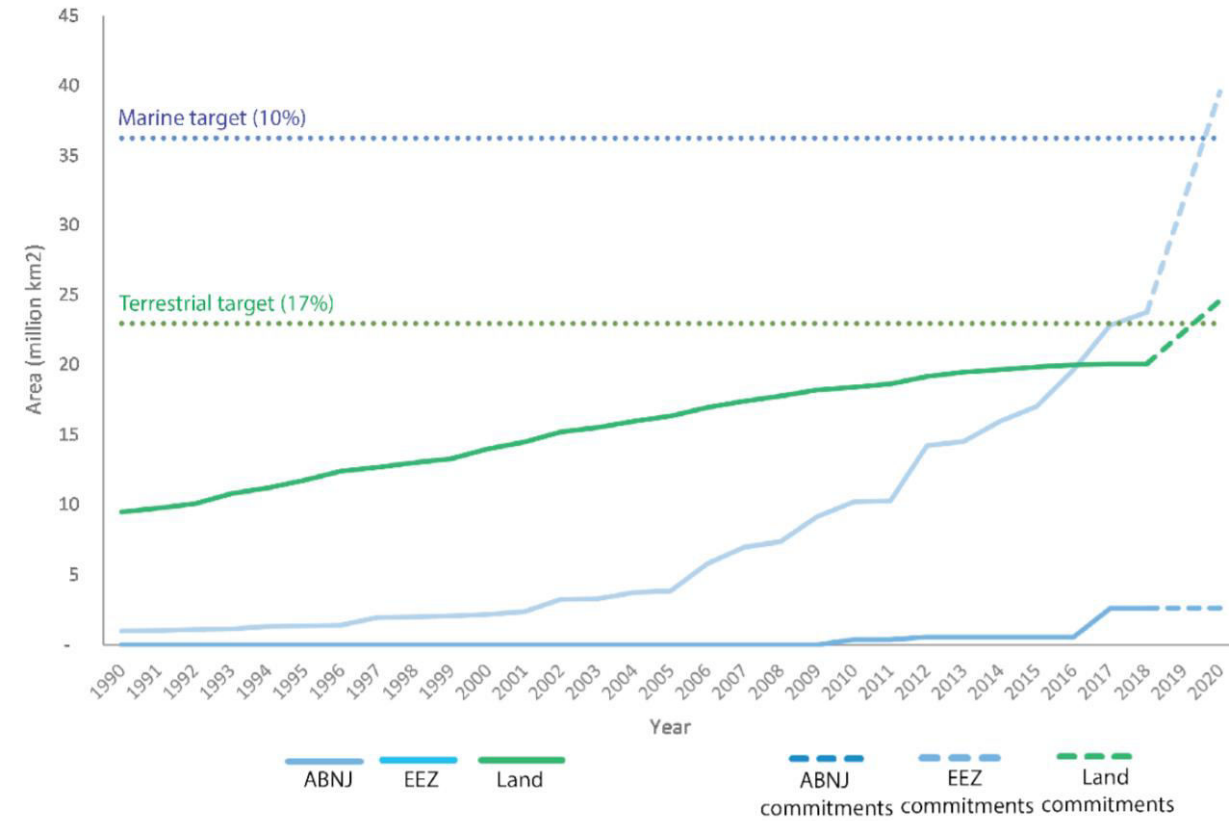
- Biodiversity is the step-sister of climate change
- Biodiversity receives **2% of the media coverage** and **3% of finance** compared to climate change



6. THERE IS REASON FOR HOPE

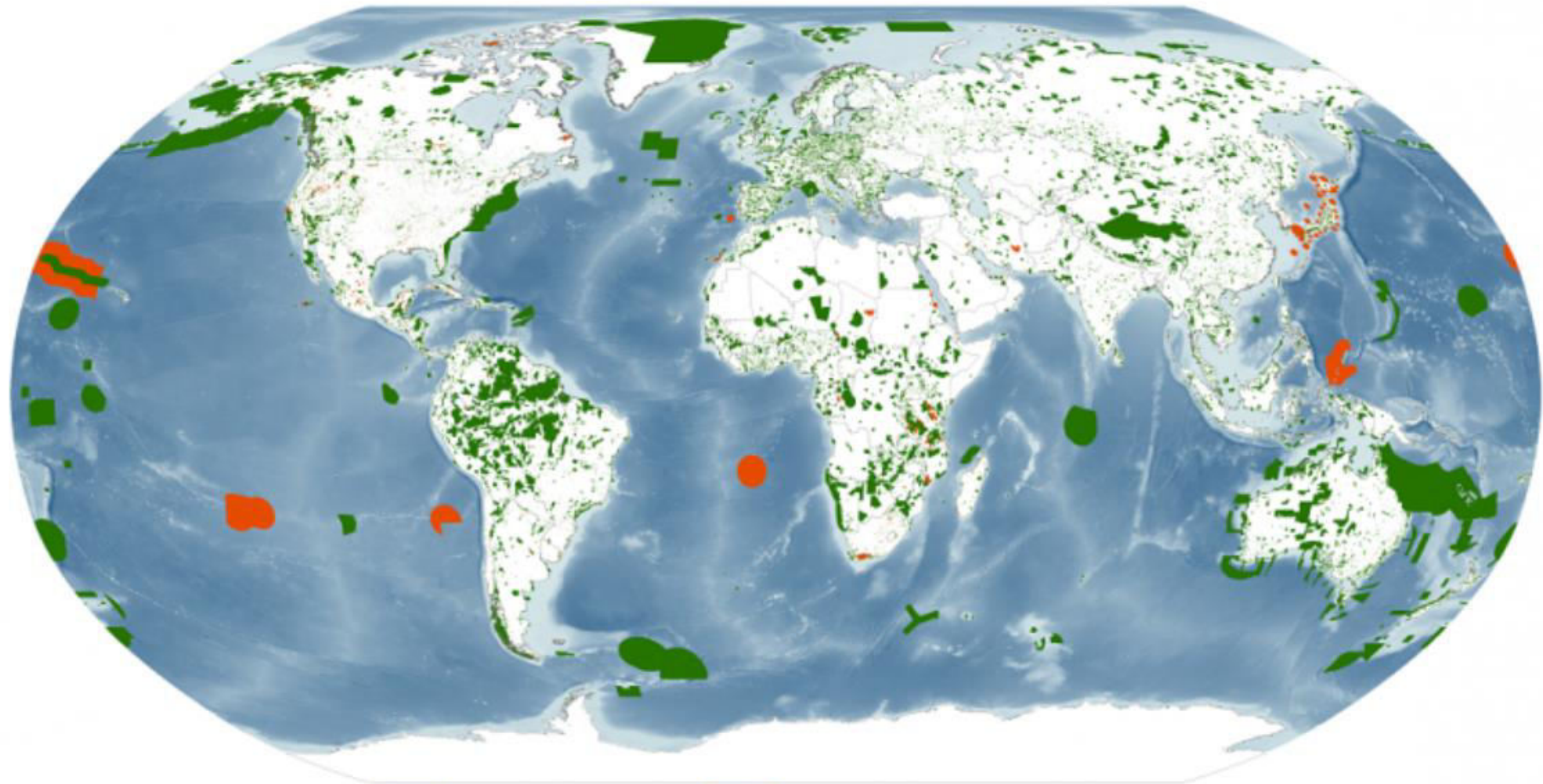


PROTECTED AREAS CONTINUE TO INCREASE



UNEP-WCMC, 2018. Protected Planet Report

BUT IS THE 17%/10% TARGET ENOUGH?



Existing protected areas Protected areas added since April 2016

The boundaries and names shown and the designations used on this map do not imply endorsement or acceptance by the United Nations.

7. WE NEED BOLDER COMMITMENT AND ACTION



PROTECT WHAT'S LEFT

- We must protect remaining ecosystem fragments as climate refugia
- We must protect large, intact landscapes to avoid tipping points



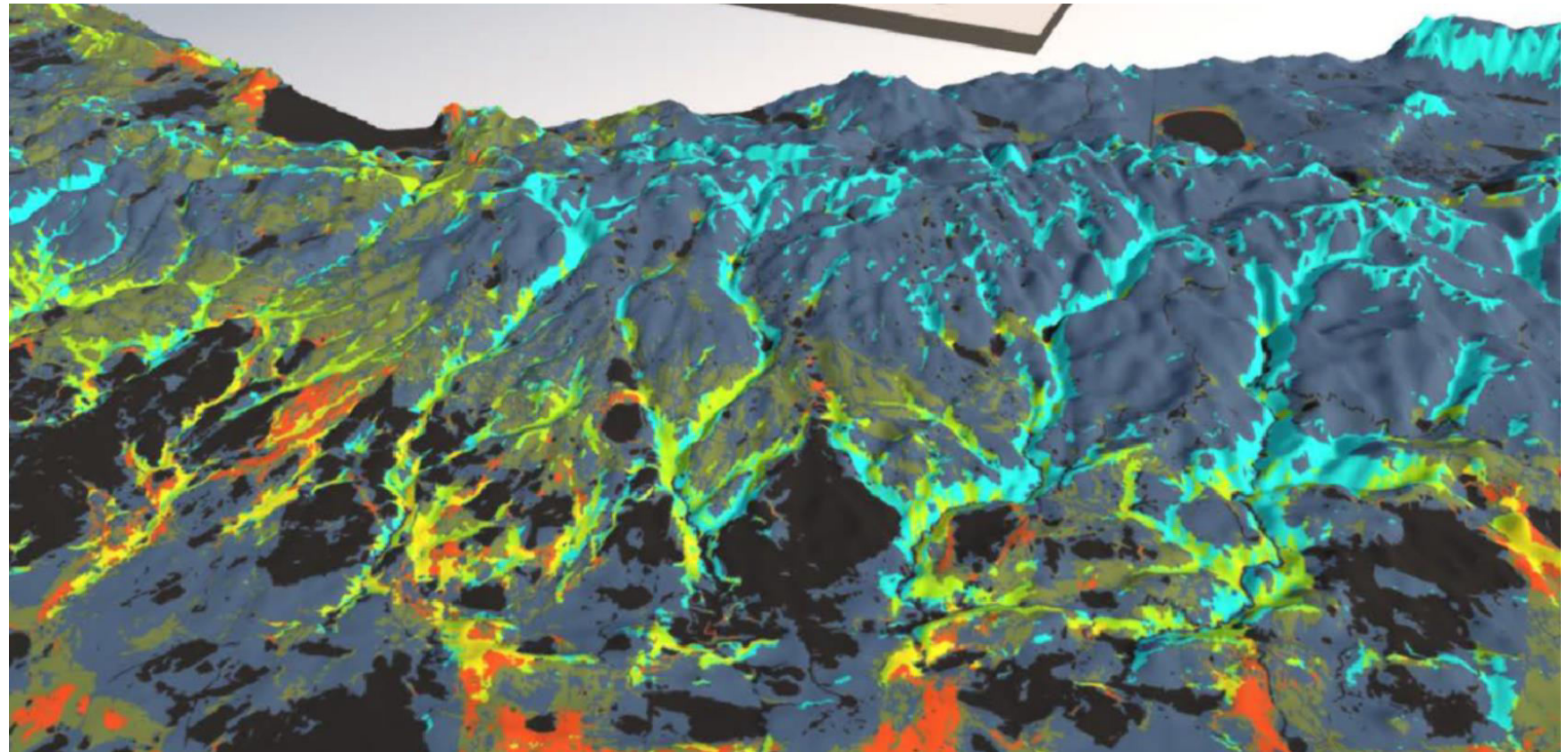
END DEFORESTATION WITHIN/BEYOND PROTECTED AREAS

- 80% of deforestation is driven by just 4 commodities:
 - Beef
 - Soy
 - Palm oil
 - Timber
- Much of this is illegal



ESTABLISH CLIMATE CONNECTIVITY CORRIDORS

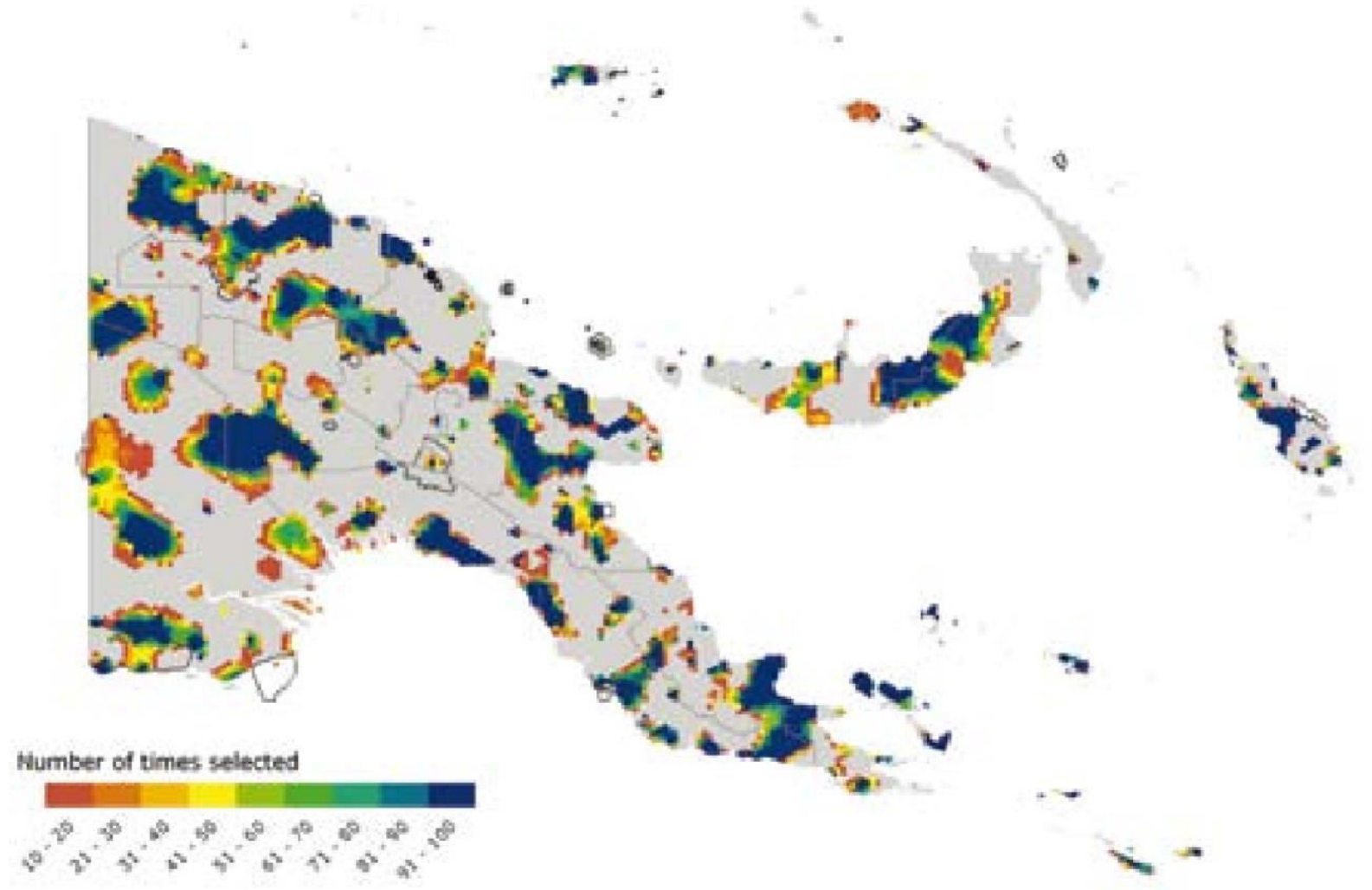
- Climate is changing faster than the ability of species to adapt
- We need to anticipate movement



California Adaptation Forum

DESIGN CLIMATE-PROOF PA SYSTEMS

- Focus on the stage, not just the actors



PNG Department of Environmental Conservation

SECURE INDIGENOUS LAND RIGHTS

- 5: % indigenous peoples
- 65: % forest areas claimed by indigenous peoples
- 10: % indigenous forest rights recognized
- 34: % global carbon stocks on indigenous forests in tropical forests



THE POST-2020 FRAMEWORK MUST:

- **Expand** protected area coverage and system design to provide a global climate safety net
- **Include much** stronger elements of climate connectivity, intactness, fragmentation
- **Safeguard** indigenous land rights, especially forests
- **Radically expand** finance and investment for protected areas as a viable climate and development solution
- **Set** ambitious apex targets related to nature-climate tipping points
- **Upscale ambition** for complementary restoration goals to restore nature's carbon stocks