

DESIGN BOOK

B. ALEXANDER SIMMONS, PH.D.



CONTENTS

About Me / Art & Science	3
Featured Publications	4
Graphs	7
Maps	9
Diagrams	12
Hybrids	15
Infographics	16
Advertisements	18
Reports	19
Logos, Icons & More	20
Contact	21

About Me

Before I was a scientist, I was an artist, known as "Blooke." Inspired by Stina Persson, Salvador Dalí, and Leonardo da Vinci, I loved merging the abstract and the figurative through mixed media. At just 13 years old, I was lucky enough to have one of my drawings featured in the Nelson-Atkins Museum of Art in Kansas City, Missouri. Prior to university, however, I had a difficult decision to make: do I pursue a career in art or in science? Ultimately, the thought of a more reliable income propelled me to pursue life as a scientist, with art as an enjoyable hobby.

Life as a traveling researcher, however, made it difficult to find time, money, and space that I could allocate to this passion of mine. After living out of two suitcases for four years, I realized that I could satisfy my artistic cravings while delivering more accessible creations that could actually prove useful for the scientific community – through graphic design.

Art & Science

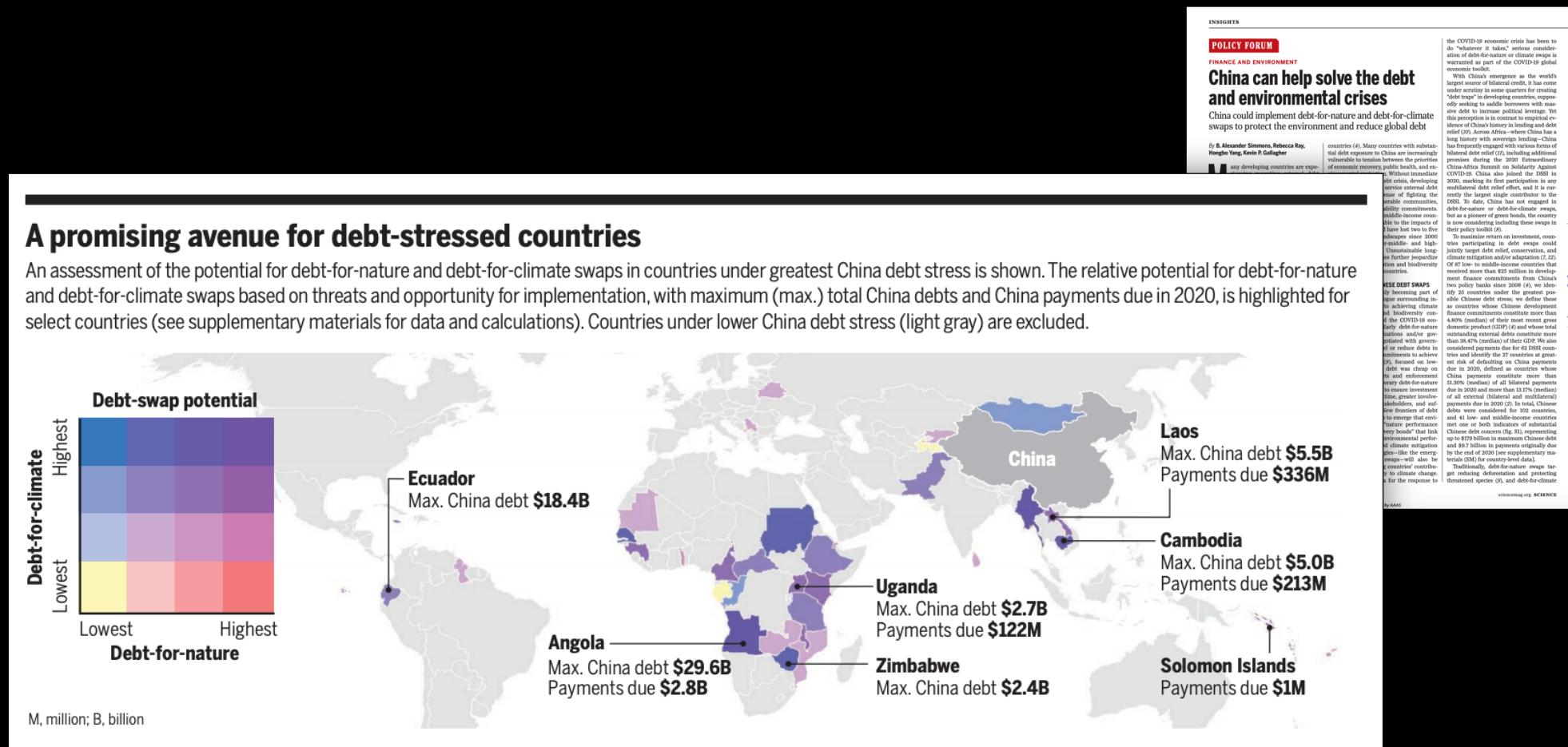
Art plays an important and frequently undervalued role in science. As any student of molecular biology will tell you, a good visualization can dramatically enhance comprehension of even the most complex phenomena. With so many people classified as visual learners, we must take our visualizations of scientific data seriously to maximize reader engagement, comprehension, and ultimately the impact of our research.

As both an artist and a scientist, I work with researchers around the world to design high-impact figures based upon the most basic tenet of art: storytelling. From color theory to instrumentalism, I use my knowledge to help researchers:

1. Emphasize their message;
2. Clarify their message;
3. Simplify their message; and
4. Present their message effectively

Featured Publications

My designs have been featured in dozens of academic journals, including *Science*, *Nature Communications*, *Nature Ecology & Evolution*, and the inaugural issue of *One Earth*. My knowledge of publication-quality figure formats, sizing, and resolutions will help you cut down on the post-acceptance stress from figure preparation.



COMMENT

<https://doi.org/10.1038/s41467-020-15870-0>

OPEN

Check for updates

Opportunities for big data in conservation and sustainability

Rebecca K. Runting¹*, Stuart Phinn², Zunyi Xie², Oscar Venter³ & James E. M. Watson^{1,2,4}

Big data reveals new, stark pictures of the state of our environments. It also reveals bright spots amongst the broad pattern of decline and—crucially—the key conditions for these cases. Big data analyses could benefit the planet if tightly coupled with ongoing sustainability efforts.

This big data revolution, which encompasses large datasets in a rapid timeframe, has the potential to significantly advance scientific knowledge to describe, analyse and scales, and separate out what is human-caused from what is natural. It can also reveal the trends emerging from these environments and propose a way forward to harness those trends.

Environmental change revealed by big data
Almost inevitably, the advances in big data, reveal that declines are worse than previously thought. For example, in the Arctic, the changing volume, flow and groundwater revealed Antarctica lost 2728 ± 1190 Mg of ice between 1992 and 2017¹. There is now confidence in model projections of a full melt by 2100². The International Union for the Conservation of Nature (IUCN) has used big data to create a Red List of Ecosystems evidence to assess the threat status of ecosystems³. The results show that 30% of the world's ecosystems are potentially threatened³. While these are not necessarily new findings, they are now more widely known.

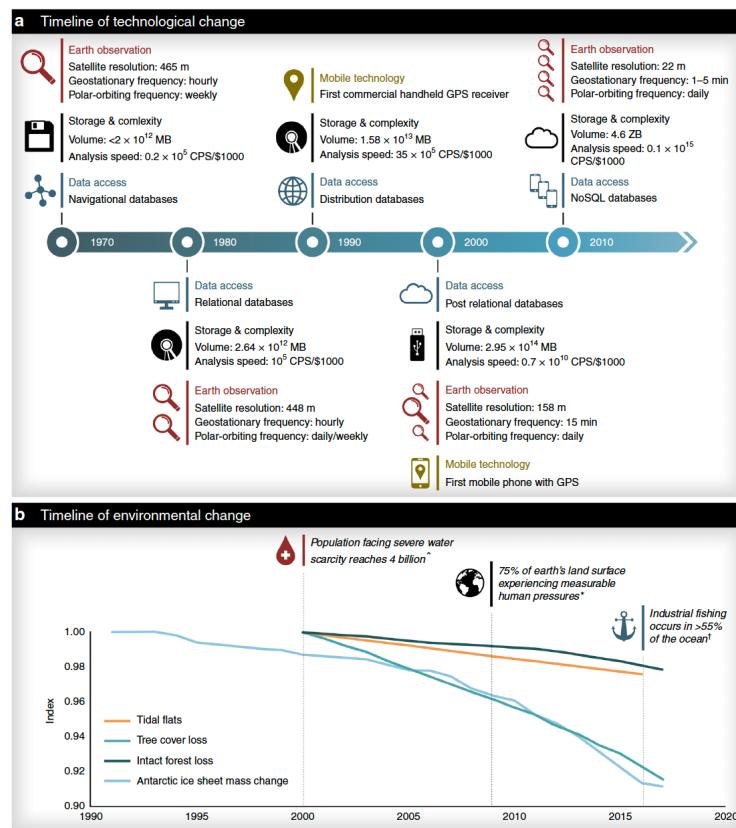
However, analysis of big data have also shown decline and—crucially—identify the key drivers of that decline. For example, the rate of deforestation in Brazil was decreasing by $118 \text{ km}^2 \text{ yr}^{-1}$ to a progressive legal framework covering

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COMMENT

NATURE COMMUNICATIONS | <https://doi.org/10.1038/s41467-020-15870-0>



NATURE ECOLOGY & EVOLUTION

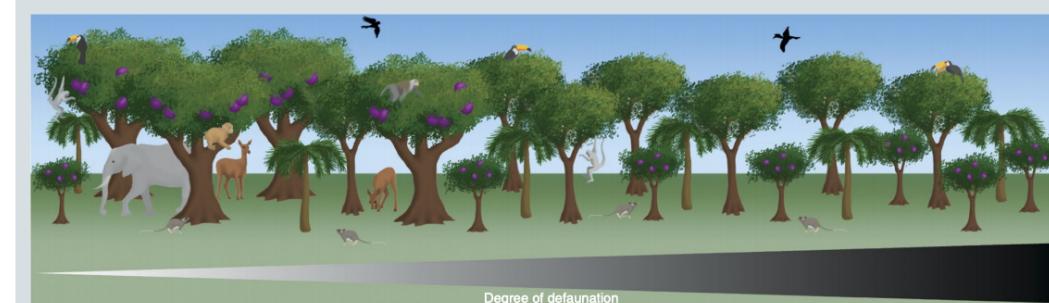
Box 2 | The effect of defaunation on carbon storage and sequestration in intact forests

Even where forests have not been cleared, many are not functioning as they once were¹⁶. Species such as the Asian and South American tapirs (*Tapirus spp.*), forest elephant (*L. cyclotis*) and the great apes have disappeared across much of their ranges. Habitat degradation and fragmentation are major causes of this defaunation, as many large-bodied species depend on great expanses of high-quality forest to sustain viable populations^{5,192}. Increased human accessibility to forests is another, with unsustainable hunting now affecting greater areas of tropical forest than the combined extent of deforestation, selective logging and wildfires¹⁹³. Wildlife species are not equally affected by hunting, with stronger impacts of hunting pressure on larger-bodied primates and ungulates compared with smaller-bodied vertebrates such as birds and rodents^{31,75,194}.

Defaunation significantly erodes key ecosystem services and functions through direct and indirect cascading effects on species diversity and trophic webs^{195–197}. There is evidence for negative effects on pollination, seed dispersal, pest control, nutrient cycling, decomposition, water quality and soil erosion^{192,198}. Studies across the African and Atlantic tropical forests indicate that the

disappearance of large frugivores and subsequent loss of seed dispersal reduces recruitment and natural regeneration of large-seeded hardwood plant species, which are key contributors to carbon storage^{199–201}. By simulating the local extinction of trees that depend on large frugivores in 31 Atlantic forest communities, one study²⁹ found that defaunation has the potential to significantly erode carbon storage even when only a small proportion of large-seeded trees are extirpated. This is because of strong functional relationships between seed diameter, wood density and tree height, which are traits related to carbon storage²⁰². Similar results have been shown for the Amazon³¹ and other parts of the tropics²⁰³.

There is also likely to be another link between defaunation and lowered carbon storage in tropical forests; lower herbivory rates in defaunated forests allow fast-growing herbivore-sensitive plants to outcompete slower-growing animal-dispersed trees that have better defence mechanisms against hunted frugivores^{31,204,205}. In defaunated forests, carbon storage is potentially reduced when these fast-growing carbon-poor plants replace an equal basal area of carbon-rich animal-dispersed trees²⁰⁶ — a process that may be irreversible once the seed stock is lost.



Schematic representation of the transition (from left to right) of a non-hunted, faunally intact tropical forest to an overhunted, defaunated forest. Shown is the degree to which large arboreal or terrestrial forest frugivores such as elephants and apes decline in abundance and, with these declines, the associated replacement of large-fruited high-biomass trees by smaller-fruited and wind-dispersed trees that have lower biomass and carbon storage. Credit: Blake Alexander Simmons.

The exceptional value of intact forest ecosystems

James E. M. Watson^{1,2,3*}, Tom Evans^{2,3}, Oscar Venter¹, Brooke Williams^{1,2}, Ayesha Tulloch^{1,2}, Claire Stewart¹, Ian Thompson⁴, Justina C. Ray⁵, Kris Murray⁶, Alvaro Salazar⁷, Clive McAlpine¹, Peter Potapov⁸, Joe Walston⁹, John G. Robinson⁹, Michael Painter¹⁰, David Wilkie¹¹, Christopher Flard¹², William F. Laurance¹³, Richard A. Houghton¹⁴, Sean Maxwell¹⁵, Hedley Grantham¹⁶, Cristian Samper¹⁷, Stephan Wang¹⁸, Lars Lestadius¹⁹, Rebecca K. Runting¹, Gustavo A. Silva-Chavez²⁰, Jamison Ervin¹⁹ and David Lindenmayer^{1,2}

As the terrestrial human footprint continues to expand, the amount of native forest that is free from significant damaging human activities is in precipitous decline. There is emerging evidence that the remaining intact forest supports an exceptional contribution to the maintenance of biodiversity, ecosystem services, carbon storage and sequestration, water provision, indigenous culture and the maintenance of human health. Here we argue that maintaining and, where possible, restoring the integrity of deflating intact forests is an urgent priority for current global efforts to halt biodiversity loss and to support the achievement of other sustainability goals. Here we argue that the integrity of intact forest ecosystems should be a central component of proactive global and national environmental strategies, alongside current efforts aimed at halting deforestation and promoting reforestation.

Although Earth has lost at least 35% of its pre-agricultural for-

In this Perspective, we argue that to achieve the goals of global

al access it is insufficient to treat all forest as equal. We argue that

intact forest ecosystems are unique in their value and that the degradation (which we term 'intact') of and accorded special consideration in global environmental policies.

Human actions that are known to cause or threaten the integrity of intact forest ecosystems include forest fragmentation, logging, over-harvesting of particular species, hunting, mining and climate change. There is now substantial evidence that intact forests support

that intact forests are indispensable not only for addressing the biodiversity crisis, but also for addressing the climate crisis, providing critical ecosystems

the maintenance of human health. We argue that the integrity of intact forests is under threat and that these forests experience further intensifying anthropogenic climate change). While it is true that intact forests are under threat from illegal logging, selective logging, industrial logging, or any other mode of exploitation, we argue that the threat of logging in a forest system reduces that threat and the greater the level of alteration, the greater the threat. Here we outline the significant

Australia: Wildlife Conservation Society, Queensland Branch, Australia. Canada: Canadian Wildlife Conservation Society, Canada. China: Chinese Disease Epidemiology, Imperial College London, London, UK. France: Institut Pasteur, Paris, France. Germany: University of Bayreuth, Bayreuth, Germany. India: Wildlife Conservation Society, India. Italy: University of Milan, Milan, Italy. Japan: Japan Society for the Protection of Nature, Tokyo, Japan. Mexico: National Commission for the Knowledge and Use of Biodiversity, Mexico City, Mexico. New Zealand: University of Otago, Dunedin, New Zealand. Norway: University of Tromsø, Tromsø, Norway. Portugal: University of Coimbra, Coimbra, Portugal. Spain: University of Valencia, Valencia, Spain. Switzerland: Swiss Federal Institute of Technology, Zurich, Switzerland. United Kingdom: University of Exeter, Exeter, UK. United States: Wildlife Conservation Society, Bronx, NY, USA. *These authors contributed equally: James

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One Earth Perspective

Shortfalls in Conservation Evidence: Moving from Ecological Effects of Interventions to Policy Evaluation

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Editorial
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ARC Centre of Excellence for Coral Reef Studies, James Cook University, Townsville, QLD 4811, Australia

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<https://doi.org/10.1016/j.oneear.2019.08.017>

Conservation of biodiversity and ecosystem services in natural environments requires careful management choices. However, common methods of evaluating the impact of conservation interventions can have conceptual shortcomings. Here, we make a call for counterfactual thinking—asking the question “what would have been” in the absence of the intervention—so we can have more thoughtful consideration of human dimensions and behavior. We review approaches and highlight the advantages of counterfactual approaches. We also argue how these approaches can fail to measure the impact of policy interventions. The latter depend importantly on human preferences of incentives that cannot be captured by studies of ecological impact. We propose that all evaluations can implement now to immediately improve their credibility.

Introduction
As summarized by the IPBES (Intergovernmental Science-Policy Platform on Biodiversity and Ecosystem Services) assessment report on biodiversity and ecosystem services, nature embodies a variety of concepts including biodiversity, ecosystem services, and ecosystem health. We argue that nature and nature's contributions to human life (e.g., food, water, and clean air) are vital to human life and well-being. However, the IPBES report also notes that “natural services are globally in decline,” demonstrating an urgent need for increased conservation efforts. To address these declines, conservation efforts must be designed to address diverse causes of decline. This includes efforts to address threats to biodiversity, such as habitat degradation and degradation of habitats. Understanding the conservation context and selecting an appropriate intervention to address biodiversity threats, and identifying an intervention that reduces these threats to achieve the goals. However, threats to biodiversity are often complex, interacting, and often diverse. They include protection, restoration, law and policy, incentive programs, and more. A better understanding of the improved understanding of the impact of conservation interventions is needed so that limited conservation funds can be used most effectively. This improved understanding of what can be achieved by building a clear evidence base of what conservation interventions have worked, then translating this evidence into new contexts to design effective future interventions.

62 One Earth, September 20, 2019 © 2019 Elsevier Inc.

One Earth Perspective

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A Traditional control-intervention sites



B Ecological paired sites



C Policy paired sites



Figure 1. Comparison of a Traditional Control-Intervention Design with a Matched Ecological Design and Matched Policy Evaluation Design for Measuring the Impact of a Protected Area in Avoiding Clearing

For a Figure360 author presentation of this figure, see <https://doi.org/10.1016/j.oneear.2019.08.017>.

(A) A traditional control-intervention design would select spatially adjacent sites to account for environmental confounding factors (e.g., exposure to climate conditions, shared biophysical traits). For example, historical studies have selected adjacent sites within a 10 km buffer of protected areas.^{21,29} This approach includes obvious sources of bias. For example, spatially adjacent sites do not necessarily share social confounding factors; for example, adjacent unprotected sites might be flatter and thus more exposed to clearing, resulting in an overestimate of the impact of the protected area.^{21,29}

(B) Ecological evaluation approach using counterfactual thinking includes considerations of ecological confounding factors such as vegetation type and slope, thereby selecting spatially distant sites that control for these factors but still retain obvious social bias.

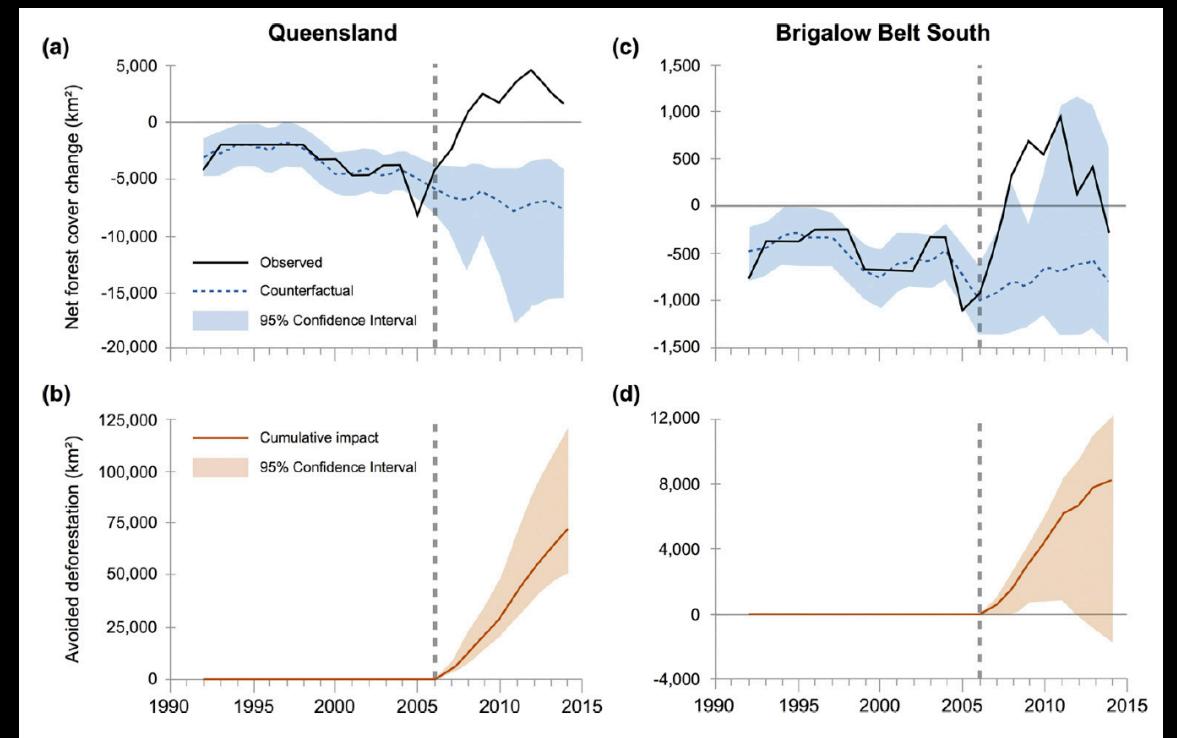
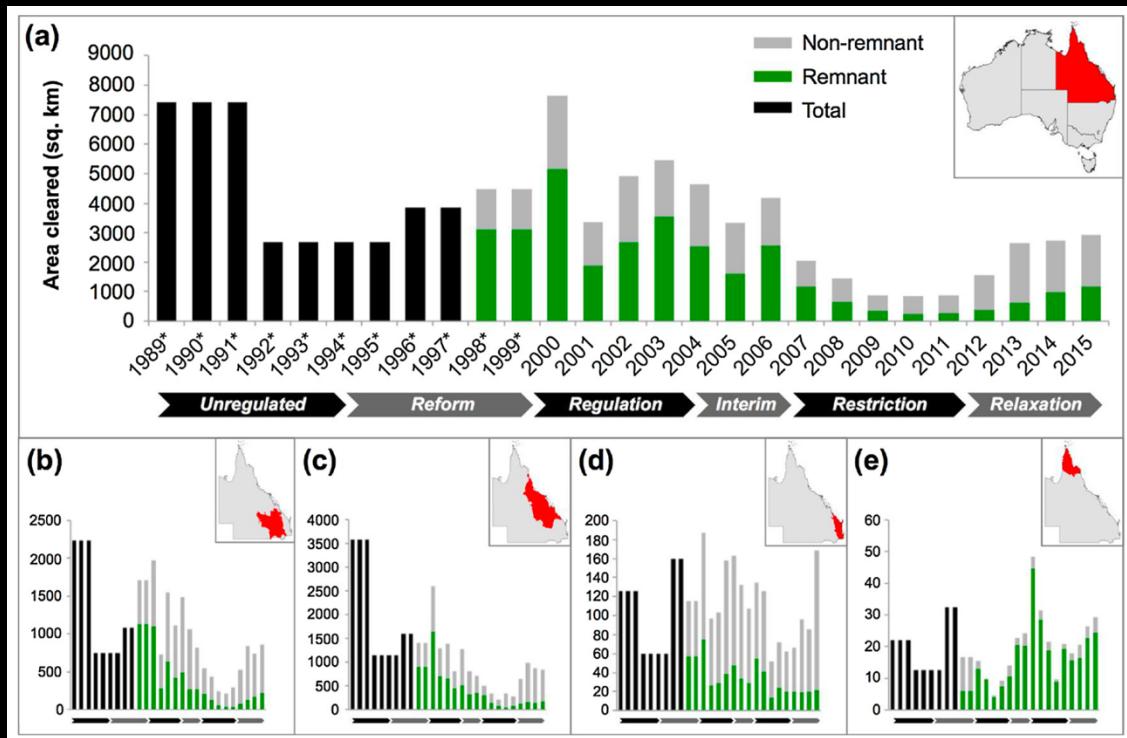
(C) Policy evaluation approaches using counterfactual thinking include considerations of social confounding factors, thus selecting sites that match both environmental and social factors.

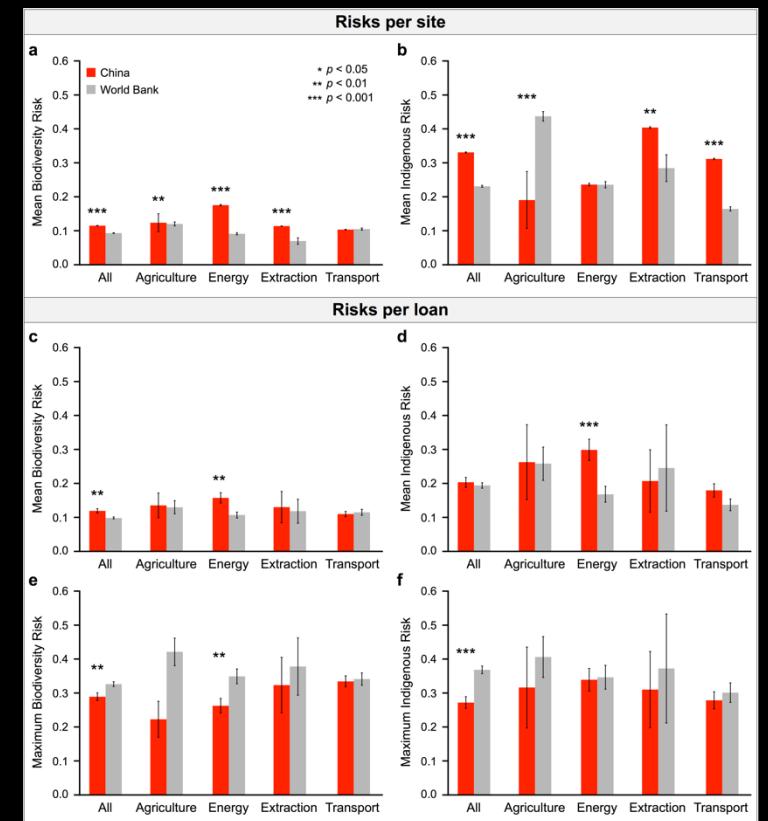
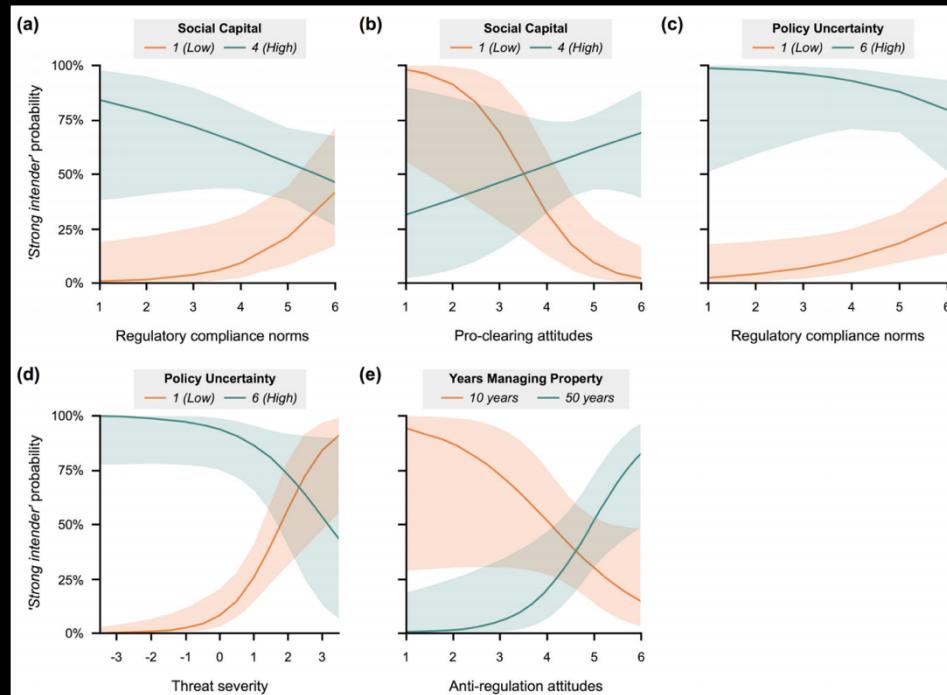
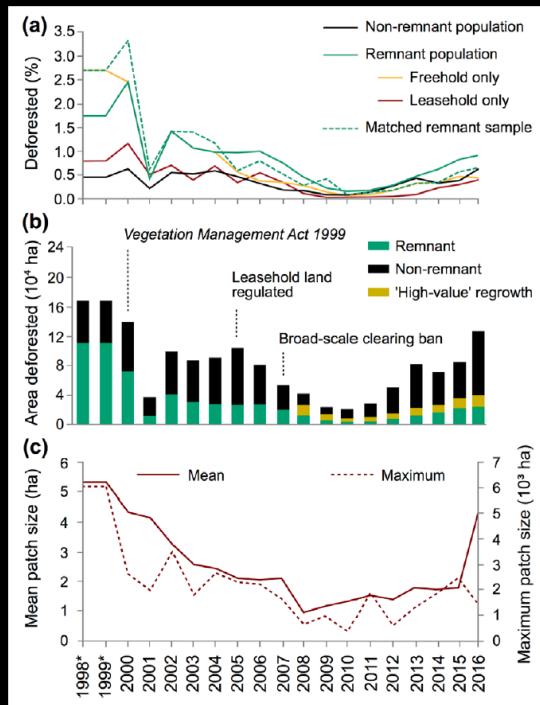
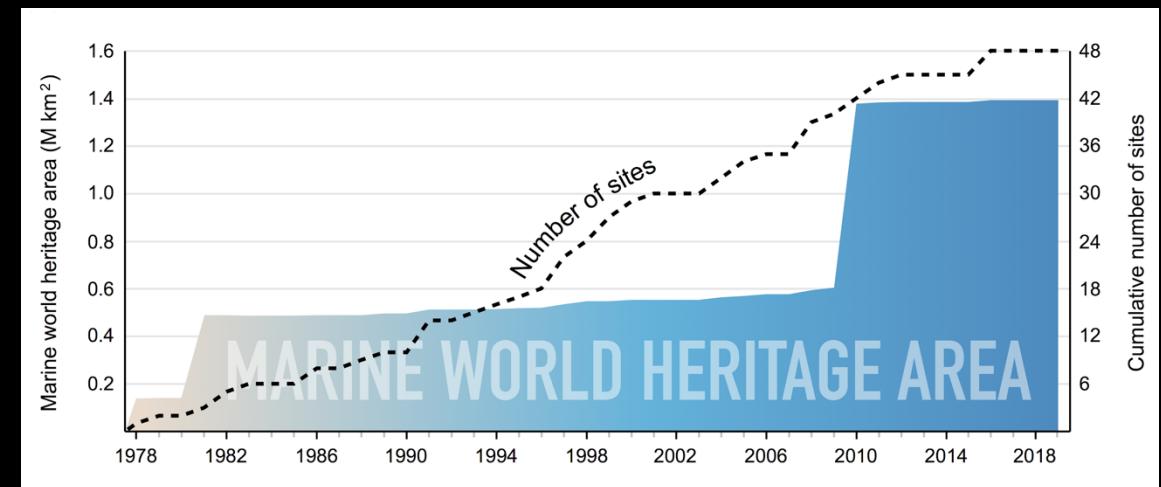
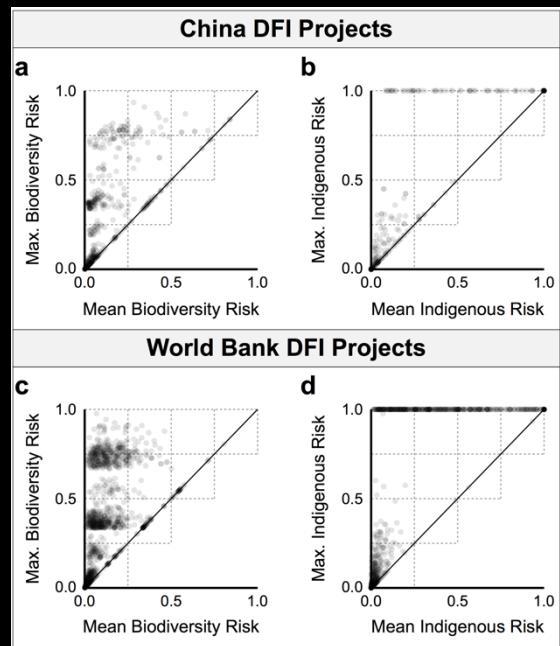
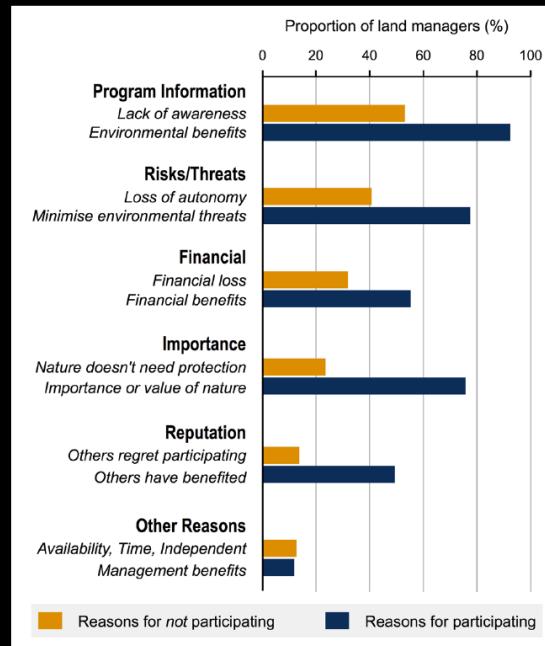
Figure360▷

by interdisciplinary groups or applied economists.^{7,14–22} The majority of evaluations in practice still rely on simple before-after or control-intervention approaches (discussed in detail in the

Graphs

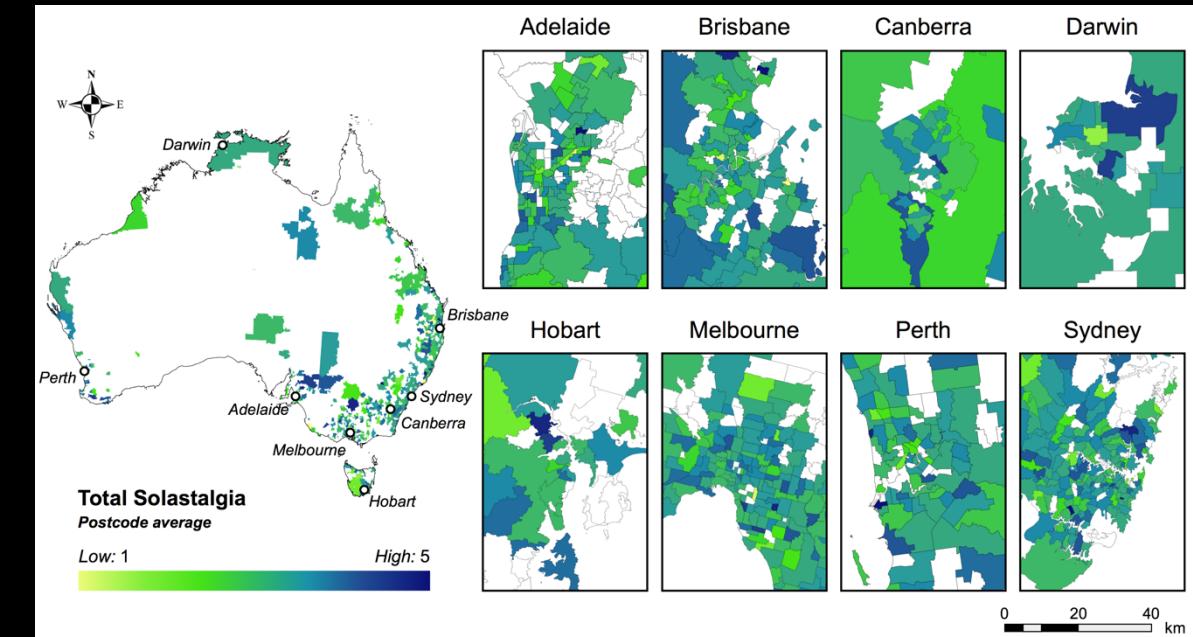
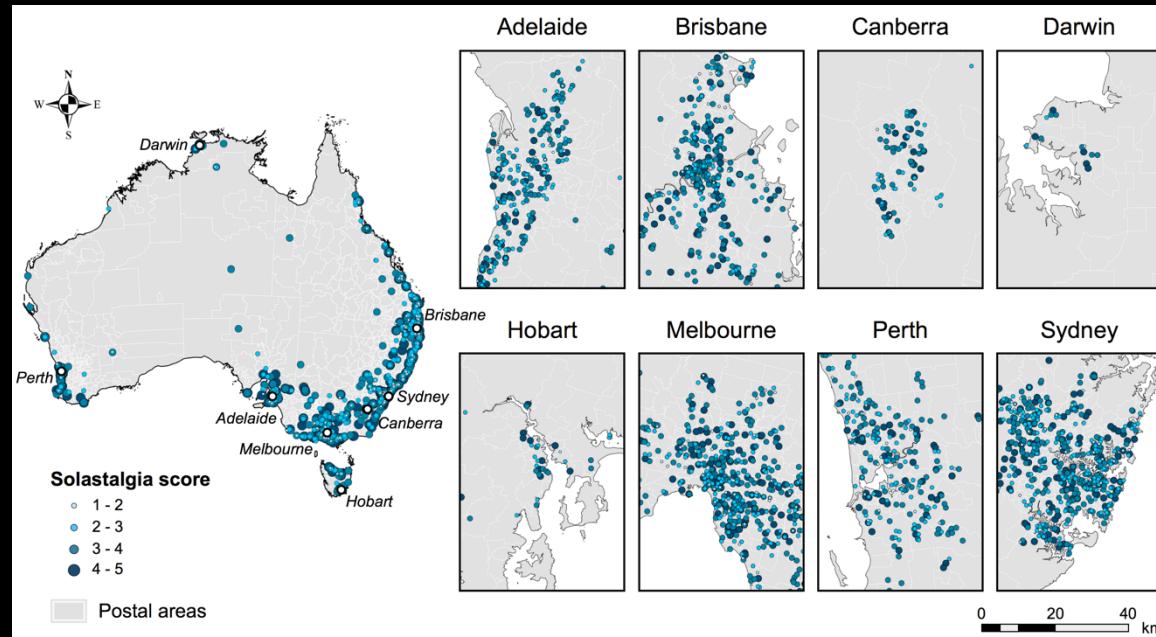
Designing graphs, plots, and charts that are clean, sleek, engaging, and informative can be a challenge. These figures are the most common in research, yet they are often the least attractive to an audience (especially the general public). While most researchers are skilled in generating their own graphs in R, Excel, or Matlab, many are looking for ways to enhance those default outputs. I work with clients to determine which type of graphs will best highlight their results and deliver the clearest message, as well as how to maximize visual appeal to captivate a broader audience.

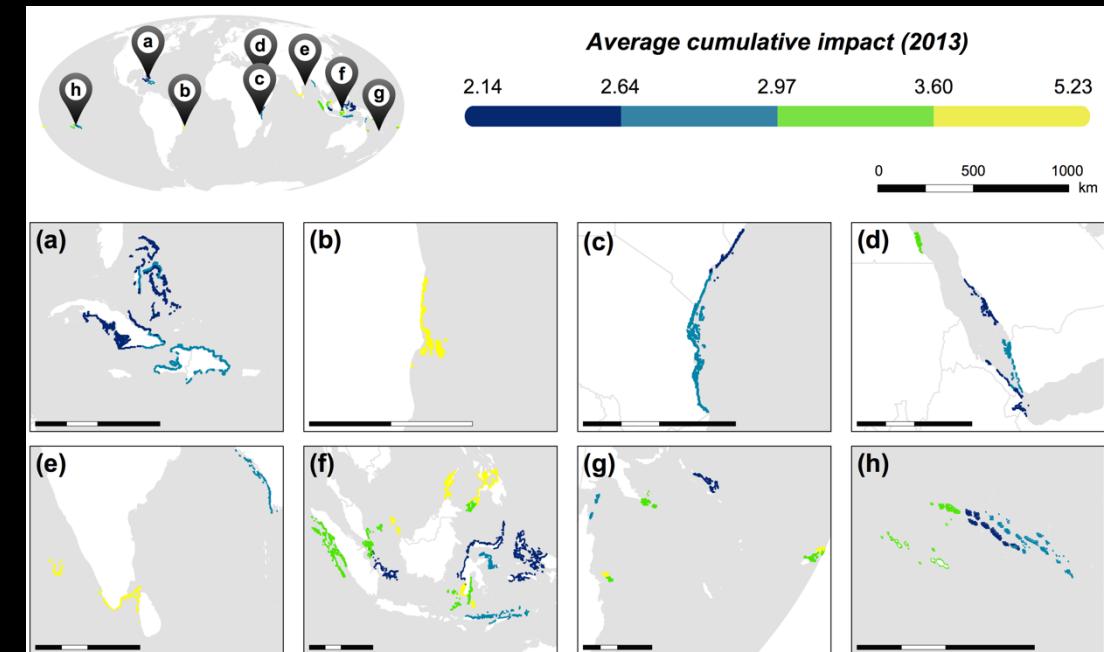
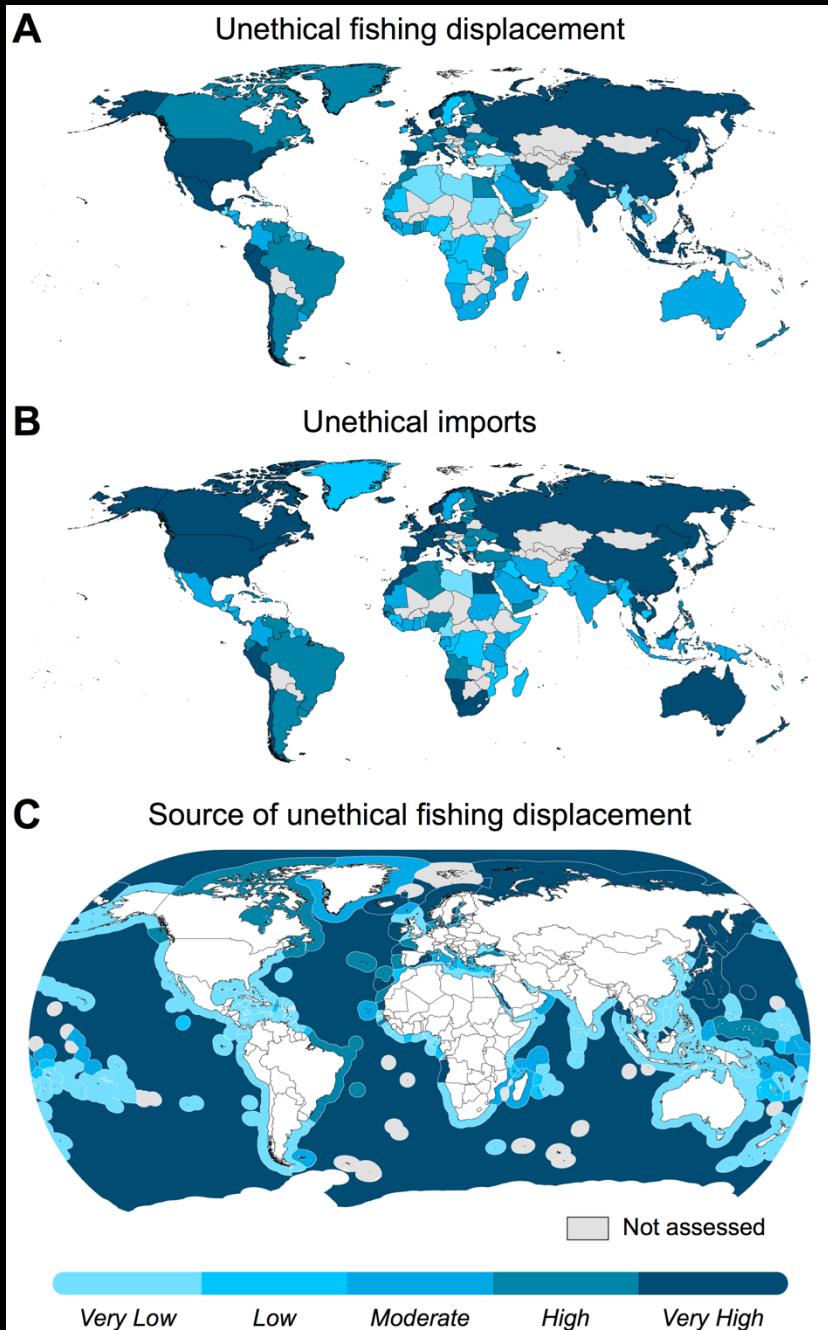


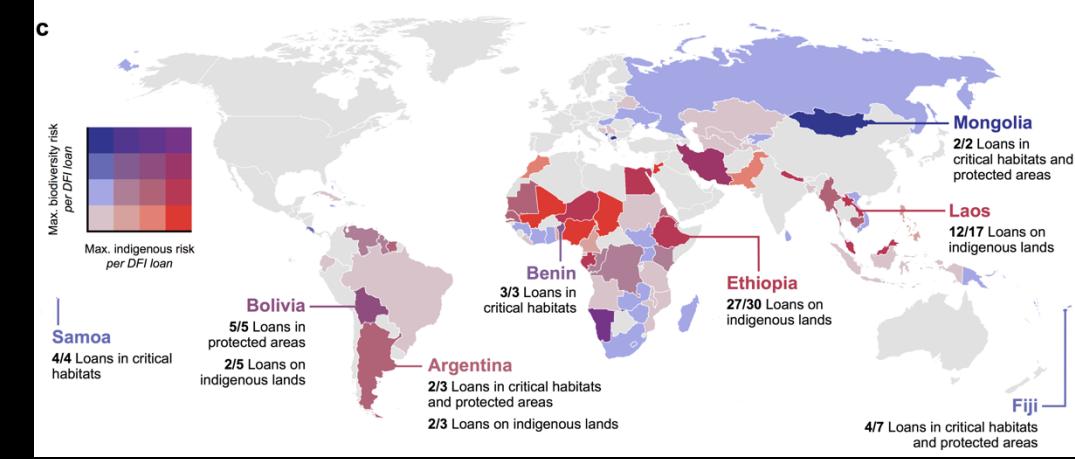
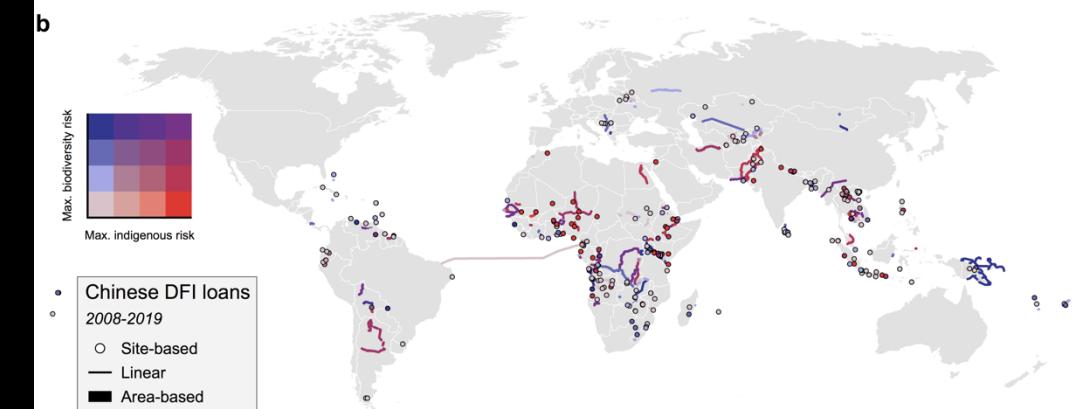
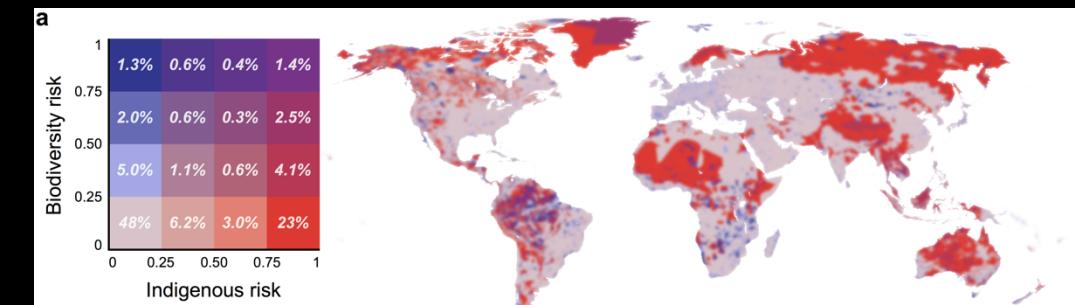
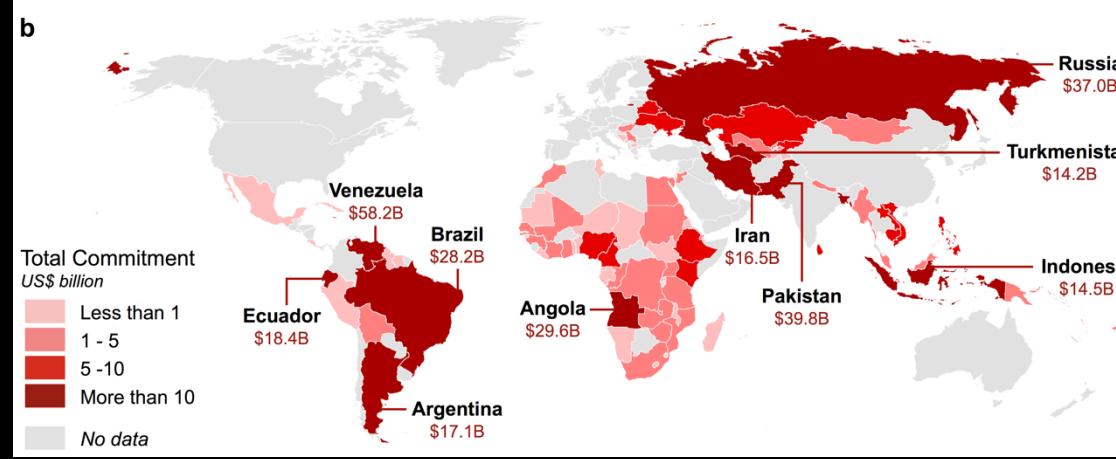
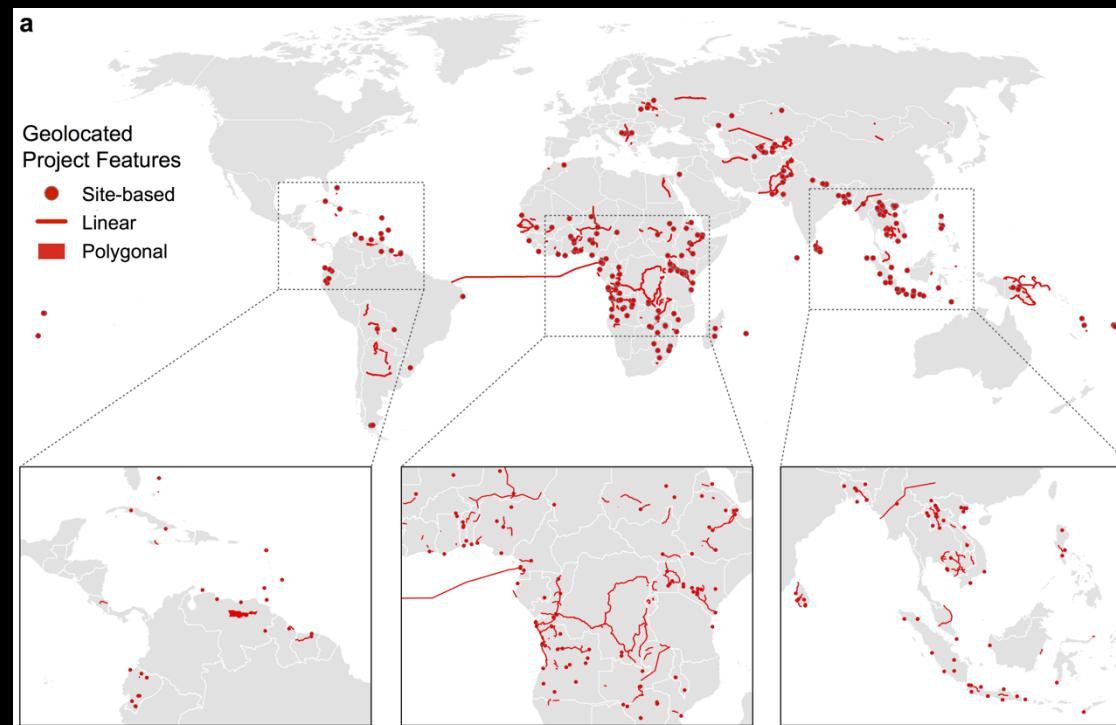


Maps

My favorite projects to work on involve mapping spatial data. Luckily for me, this is one of the most common requests I get as a designer, as a smaller proportion of researchers have been trained in geographic information system (GIS) software, like ArcGIS or QGIS, and those who struggle with coding have difficulty using the spatial features of other software, like R or Google Earth Engine. Of course, some skilled mappers still struggle with designing engaging and informative maps. I work with clients of all experience levels to design maps that can best communicate observable spatial patterns and intrigue an audience.

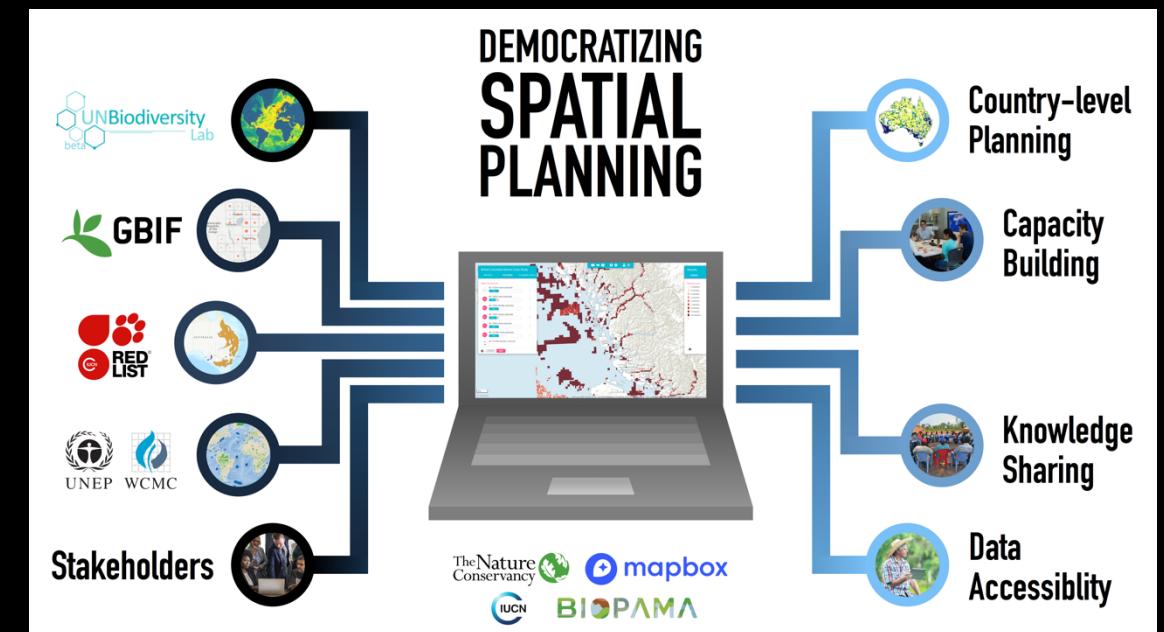
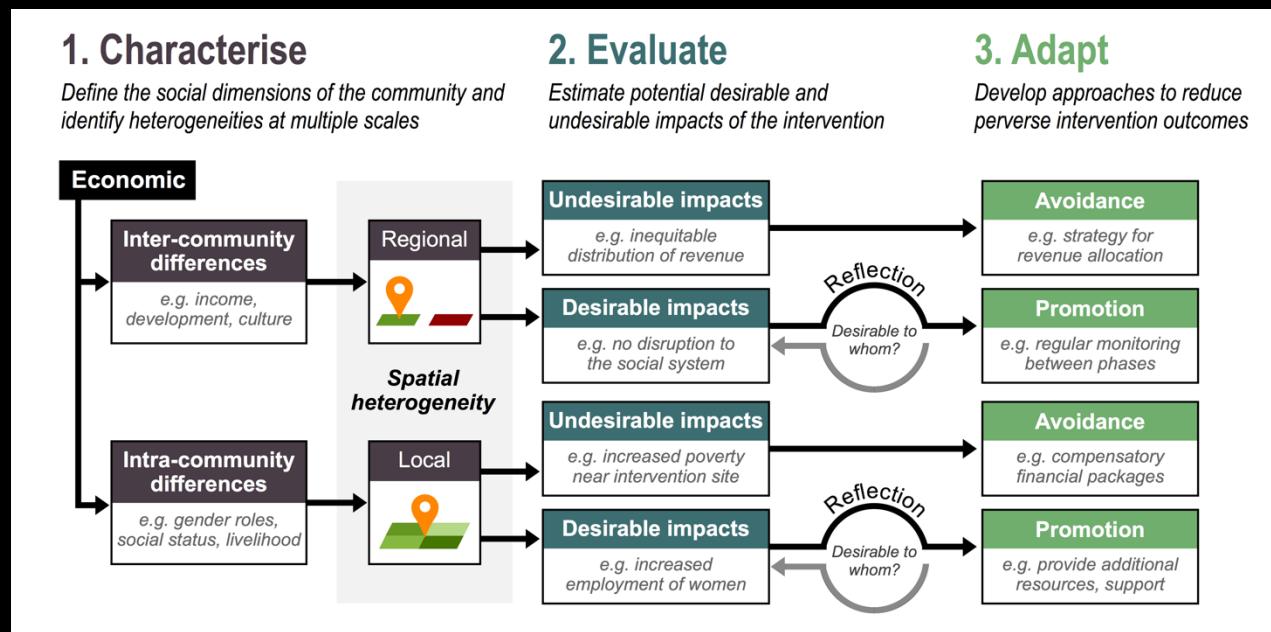


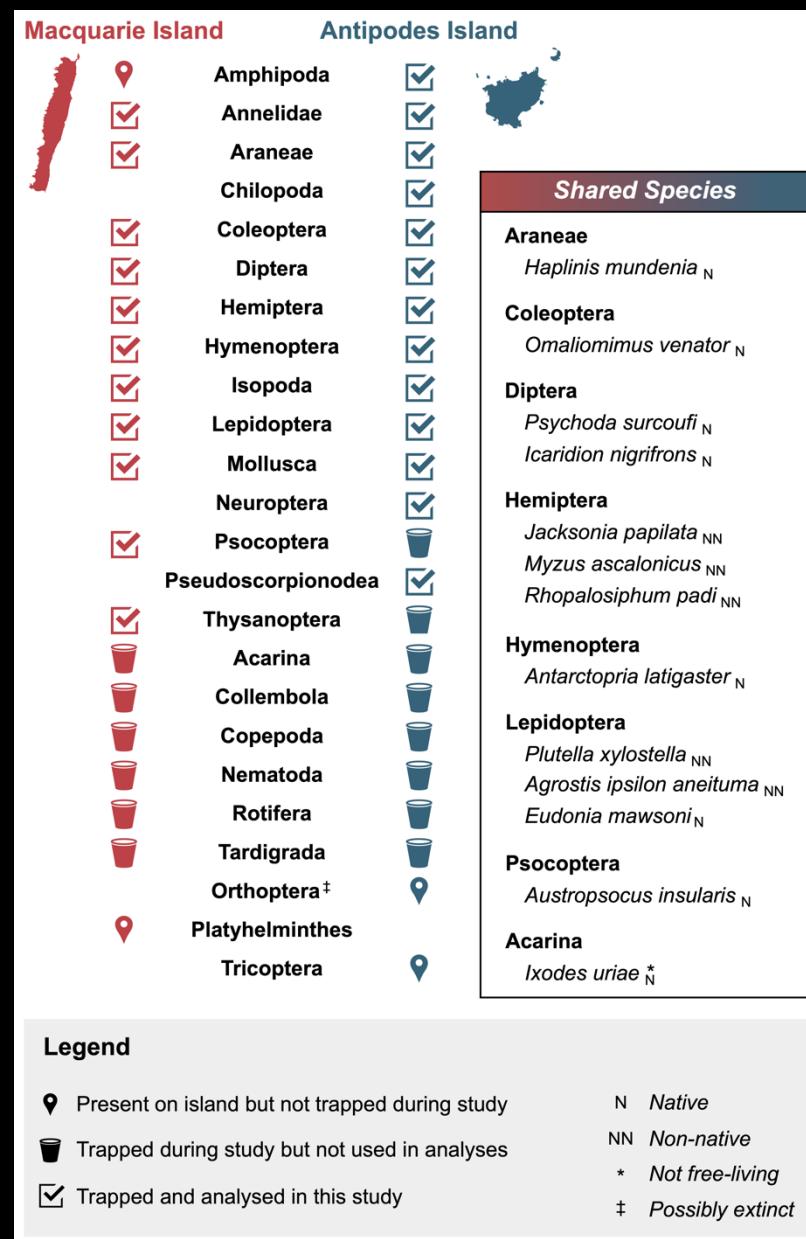
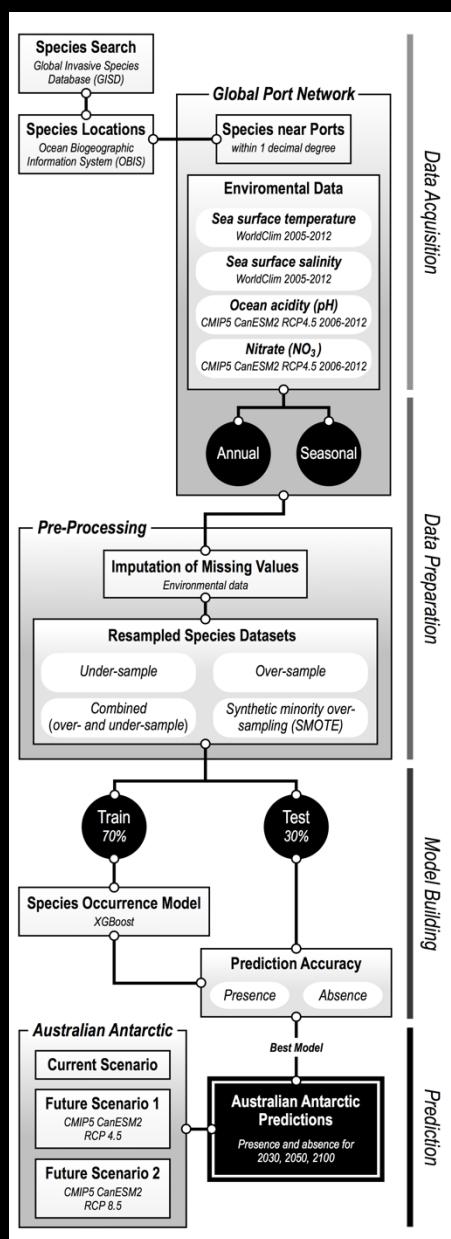




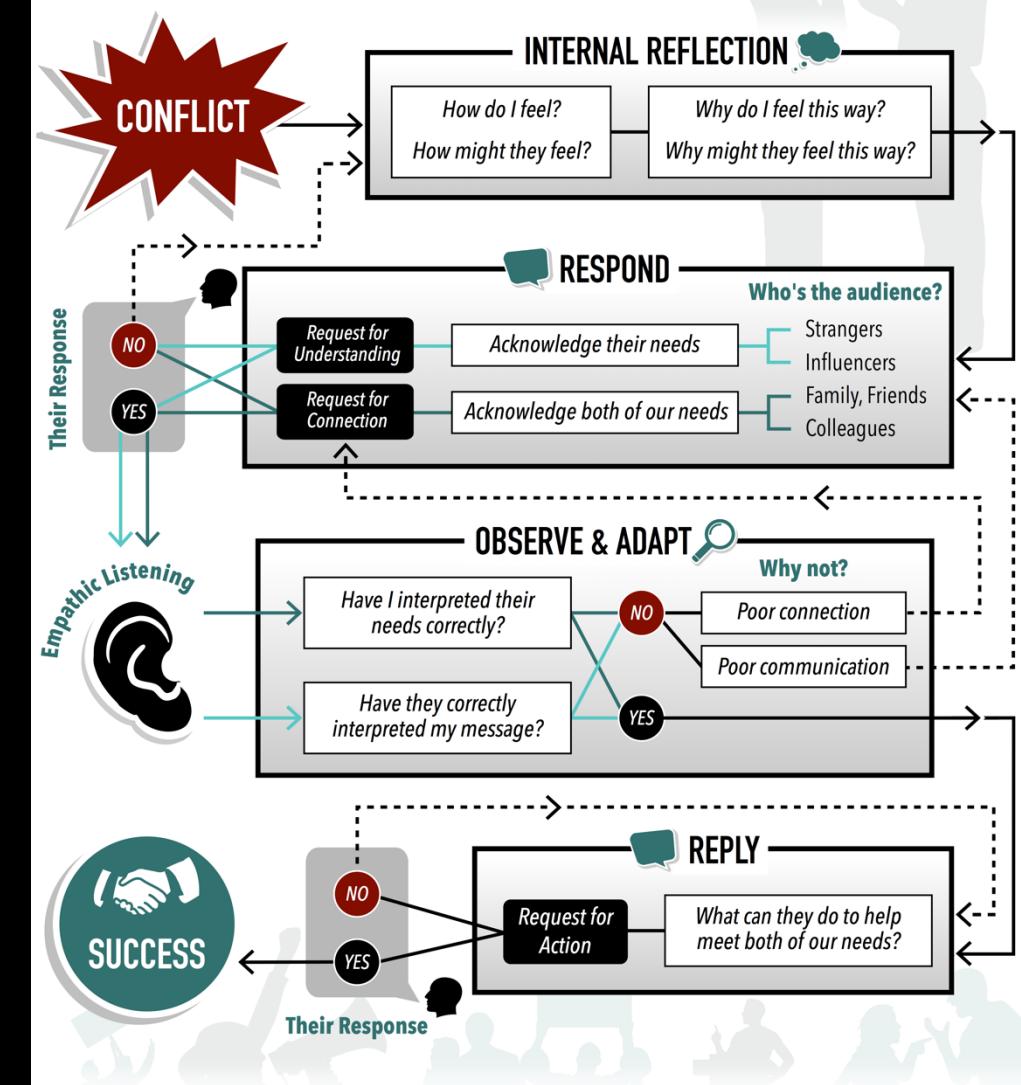
Diagrams

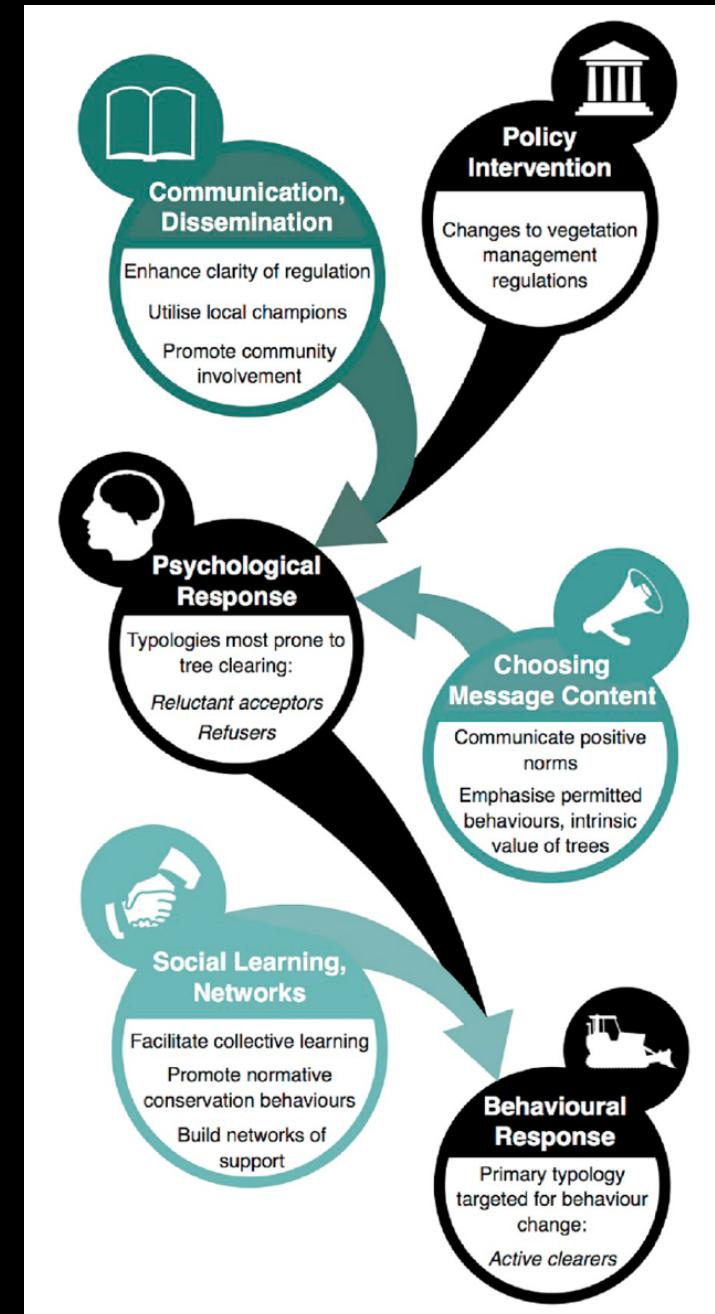
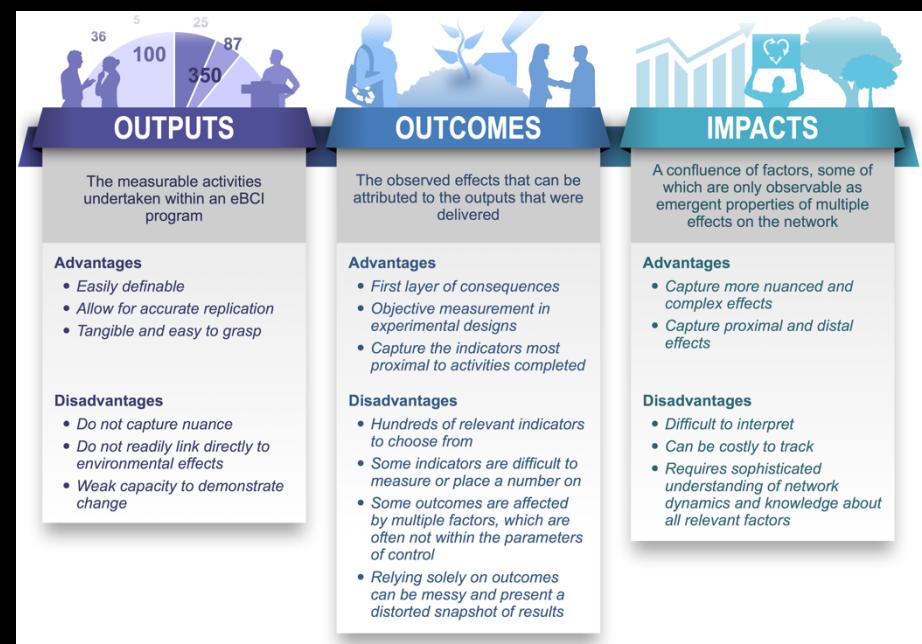
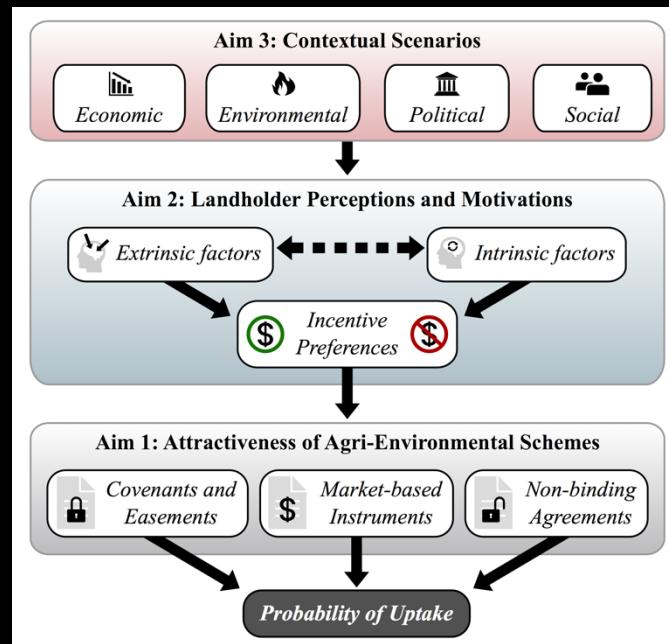
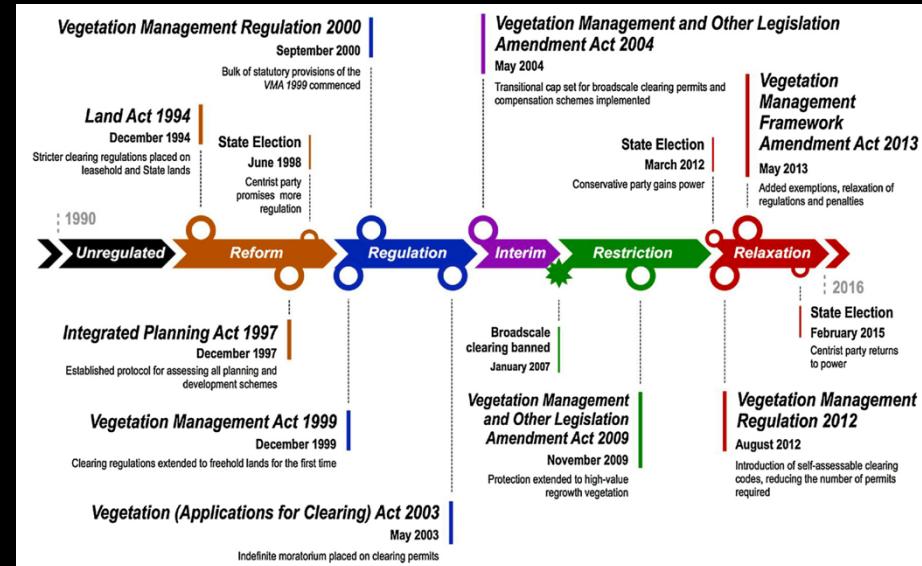
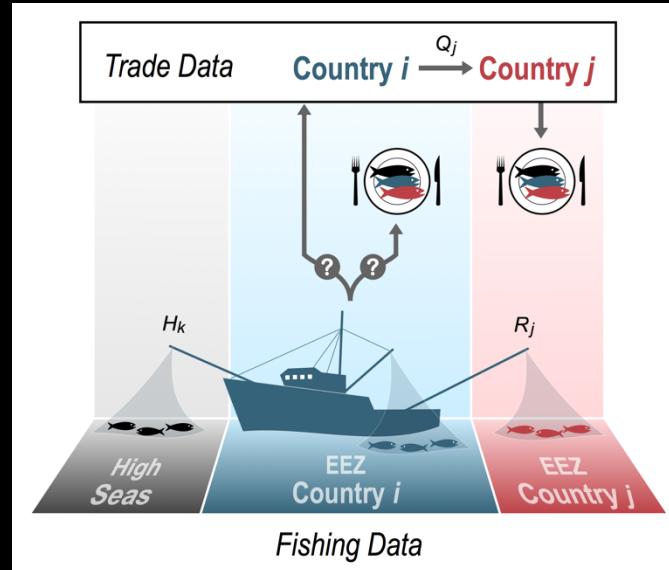
One of the most challenging tasks for researchers (and designers) is explaining an idea, concept, process, or methodology as simply and effectively as possible. One of my most frequent requests is to assist researchers in creating diagrams and flow charts describing a variety of things, like grant proposals, research methods, or event timelines. I work with clients to consolidate complex and intricate concepts or processes into clear, simplified, and attractive diagrams that can efficiently translate paragraphs of text into a single image.





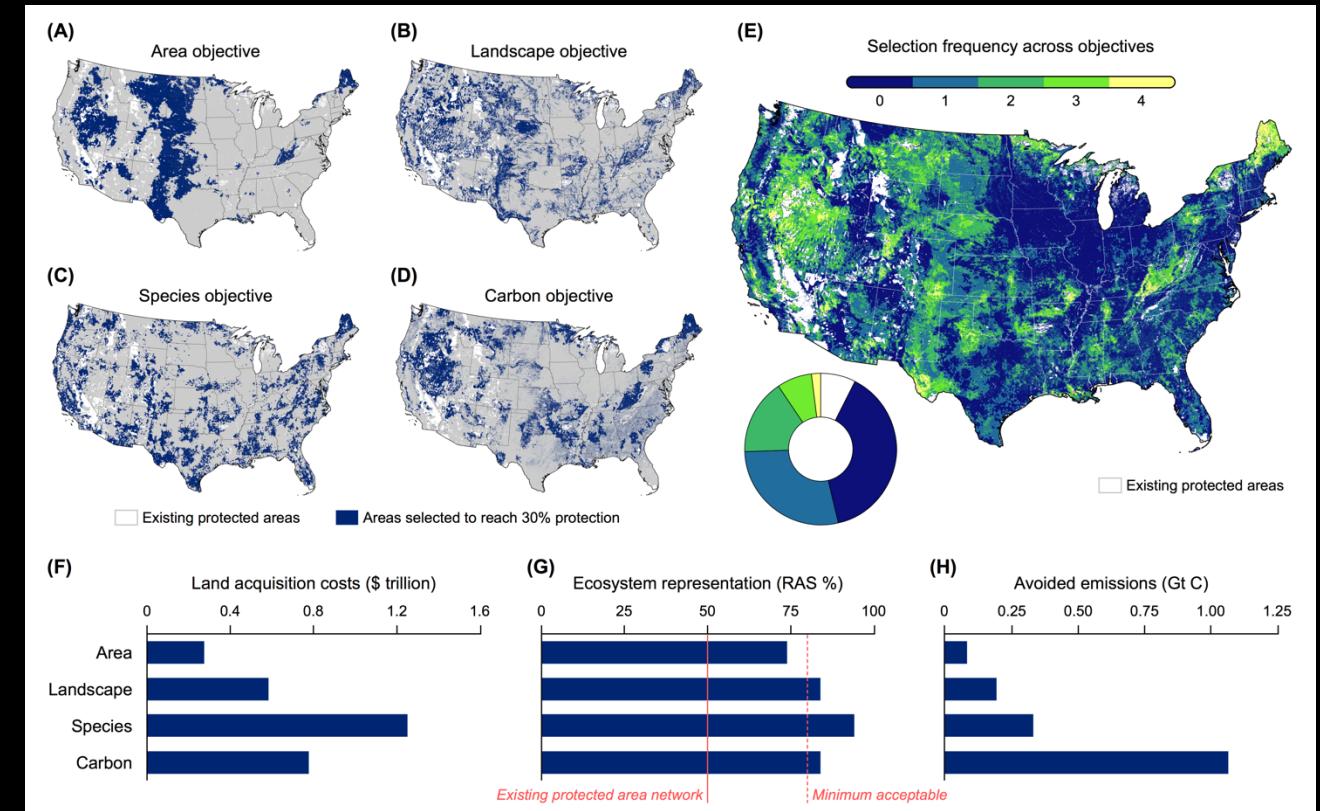
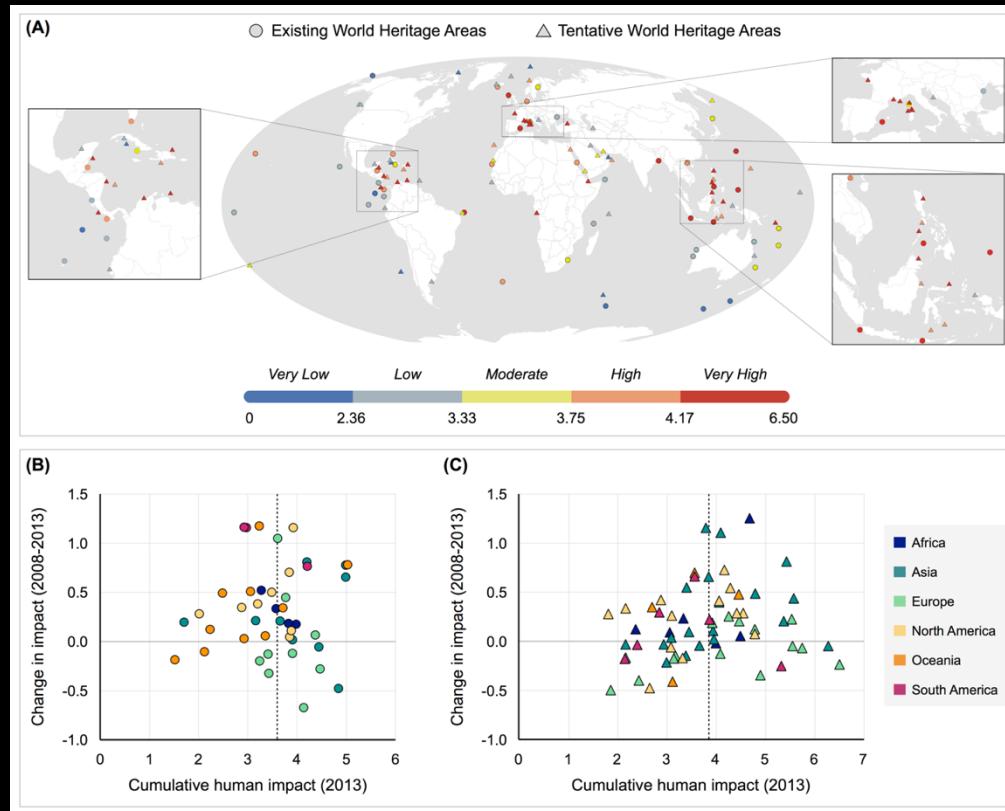
Navigating Conservation Conversations through Nonviolent Communication





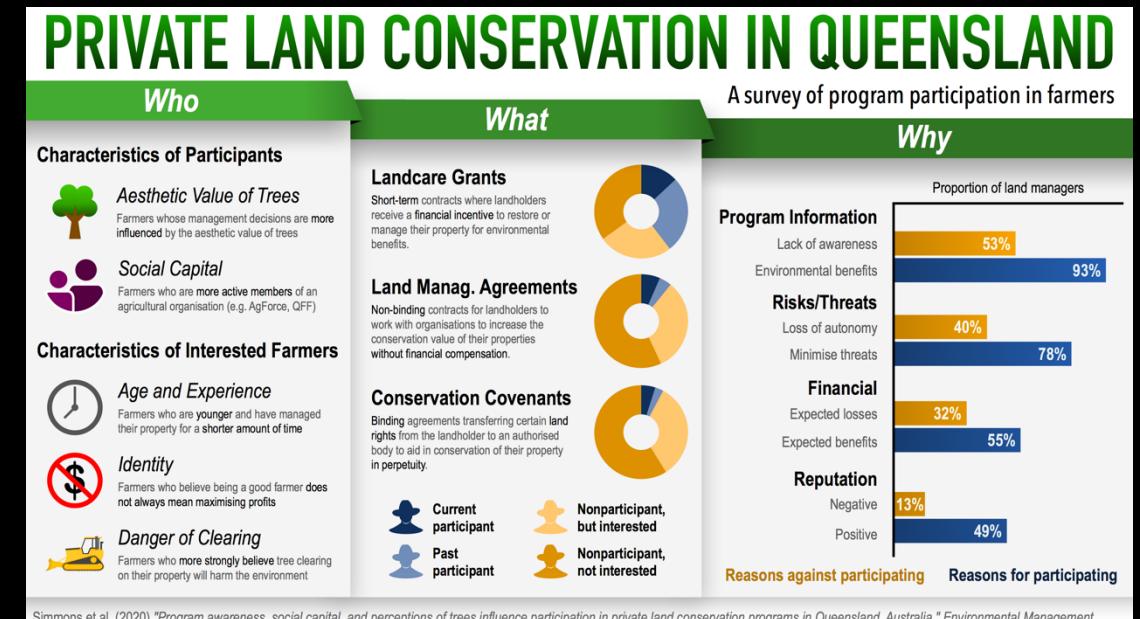
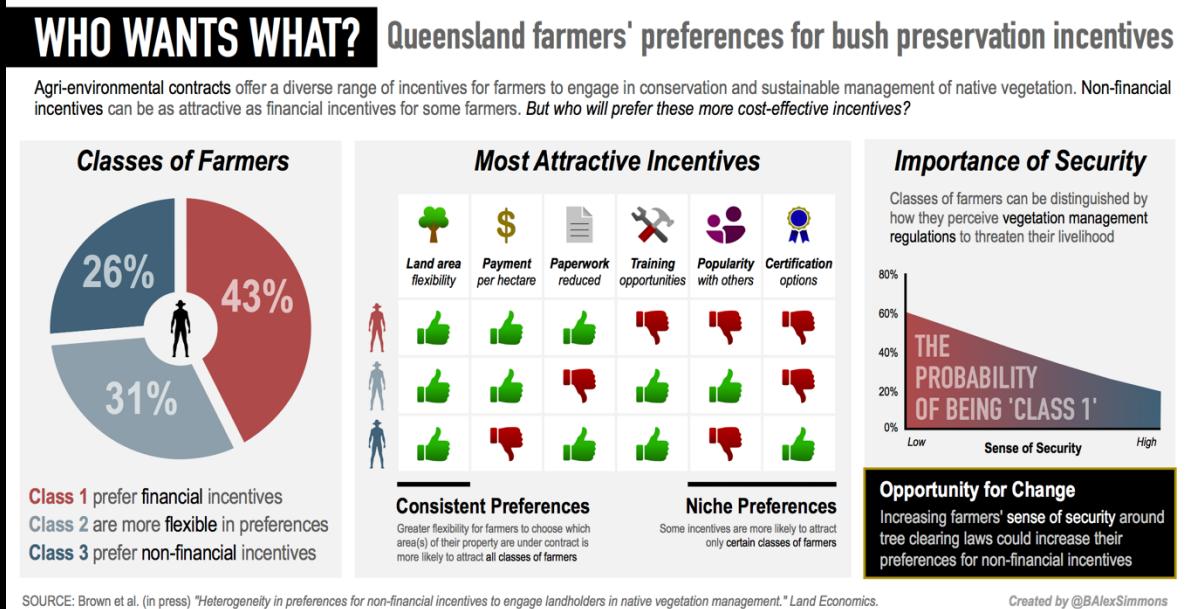
Hybrids

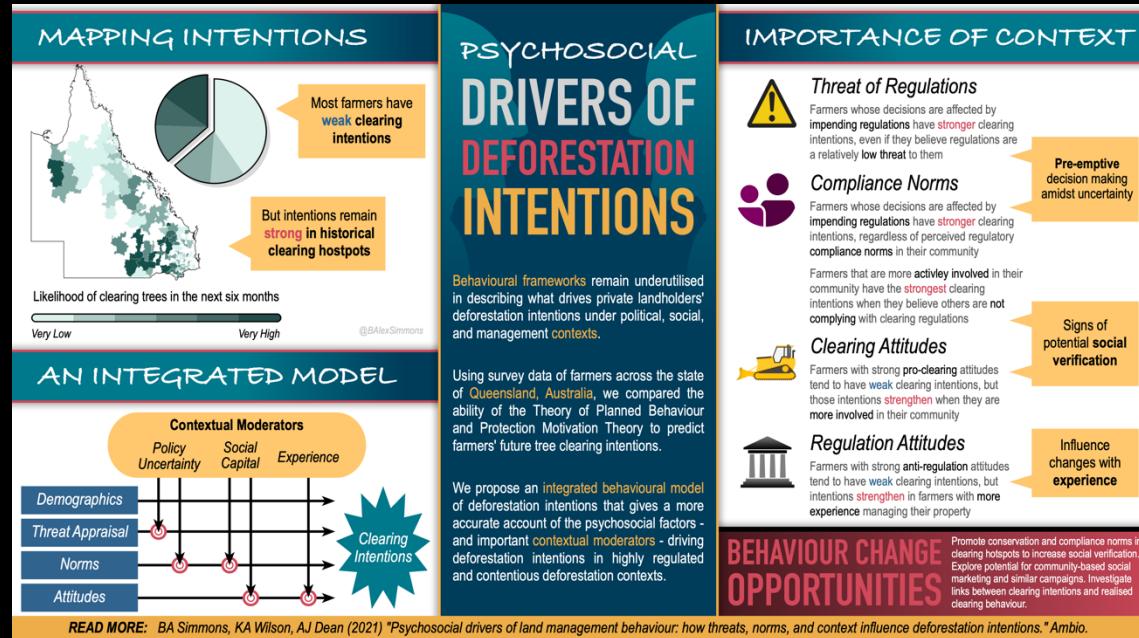
Often, merging graphs and maps into a single figure will be advantageous for researchers – whether it's to enhance the clarity of a complex message or because of limitations in the number of figures that a journal accepts. These hybrid designs are often more impactful because they present a more complete story, provide a diversity of content for the reader to explore, and are easier to share than multiple figures.



Infographics

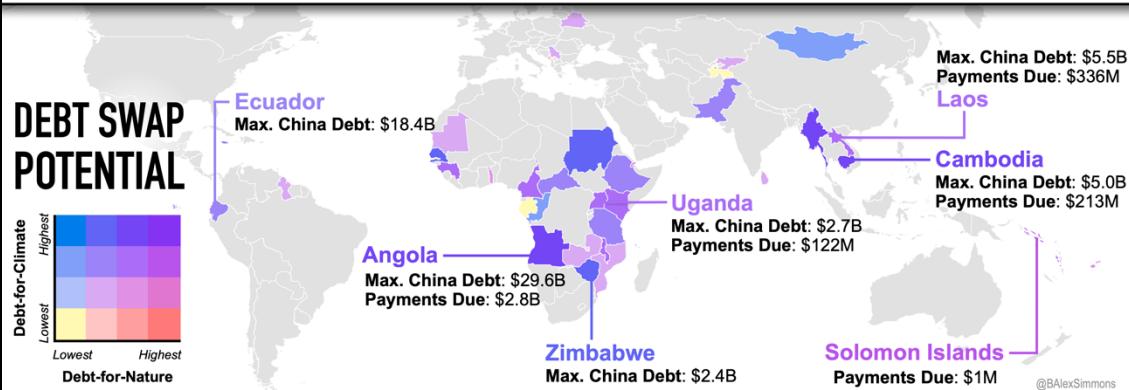
Probably the most satisfying projects for me are those involving infographics. Infographics are the 'mixed media art' of the graphic design world, sometimes incorporating text, graphs, maps, tables, and diagrams all in one image that summarizes the key messages of a project. Because of their ability to concisely summarize results or entire projects, and their design tailored to engage and inform a lay audience, infographics tend to have the greatest impact on social media platforms (second to short animations). Thus, they provide an excellent opportunity for my clients to communicate their research to a broad audience and gain greater exposure for them and their work.





CHINA CAN HELP SOLVE THE DEBT AND ENVIRONMENTAL CRISES

As developing countries emerge from the **COVID-19 crisis**, they will need to pivot rapidly to relaunch their economies. Standing in the way is the looming **debt crisis**. Without substantial debt relief, countries will face pressure to exploit natural capital to pay short-term debt, placing **conservation** and **climate change** ambitions aside. We explore opportunities for **China** - the world's largest bilateral creditor - to alleviate debt burdens in exchange for debtor nation commitments to climate mitigation and environmental protection through **debt-for-climate** and **debt-for-nature swaps**.



INTACTNESS

CLIMATE CHANGE

Intact forests currently absorb around 25% of carbon emissions from all human sources -- damaging them will leave far more carbon dioxide in the air to warm the climate.



BIODIVERSITY

Intact forests have higher numbers of forest dependent species and have higher functional and genetic diversity.

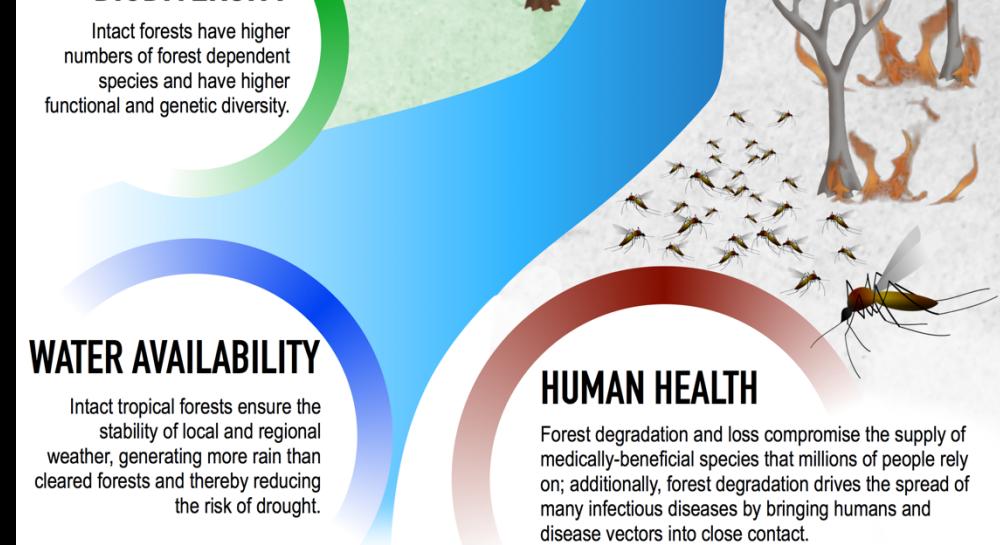
WATER AVAILABILITY

Intact tropical forests ensure the stability of local and regional weather, generating more rain than cleared forests and thereby reducing the risk of drought.

Learn more at: www.greenfirescience.com

INDIGENOUS CULTURE

Intact forests enable many indigenous groups to sustain their traditional cultures and livelihoods. In turn, these peoples are often staunch defenders of their ancestral lands.



HUMAN HEALTH

Forest degradation and loss compromise the supply of medically-beneficial species that millions of people rely on; additionally, forest degradation drives the spread of many infectious diseases by bringing humans and disease vectors into close contact.

Advertisements

What kind of graphic designer would I be if I didn't also cover advertisement materials? Whether you need a poster or flyer for an upcoming conference, seminar, or other event, I can help you get the word out and attract those with even the shortest attention span.

SOCIAL DIMENSIONS OF LAND CLEARING

Landholder typologies, attitudes, and behaviours in Queensland, Australia

Blaek Alexander Simmons¹, Angela Dean¹, Clive McAlpine¹, Elizabeth A Law¹, Kerrie A Wilson¹

¹ARC Centre of Excellence for Environmental Decisions, School of Biological Sciences, University of Queensland, St. Lucia, QLD 4072, Australia
²School of Geography, Planning and Environmental Management, University of Queensland, St. Lucia, QLD 4072, Australia

Email: b.simmons@uq.edu.au Twitter: @AlexSimmons

Land clearing impacts and inconsistencies

- Historically, land clearing rates in Australia have been at the highest in Queensland, with the majority of recent clearing occurring in Queensland.
- Despite the vegetation management policies enacted in the early 2000s, policy progression and inconsistencies have led to a range of outcomes, such as pre-emptive or "parch" clearing from landholders.
- Unlike other regions of Queensland, the Brigalow Belt South bioregion consists of patch hot and cold-spots of clearing.
- This high degree of clearing heterogeneity may be indicative of:
 - Biophysical constraints
 - Industry-specific pressures
 - Cultural/social differences (what it typically cleared)
- Land clearing is driven by a myriad of factors and their interactions:
 - Biophysical**: Biophysical measures of agricultural suitability explain 60% of historical state clearing patterns.
 - Political**: The enactment of the *Vegetation Management Act 2003* (which restricted land clearing, but subsequent policy restrictions resulted in minimal additional change).
 - Socio-economic**: Work on investigating the influence of markets, potential profitability, remoteness, and other factors on net forest cover and remnant forest loss.
 - Social**: Little is known of the **social dimensions** of clearing in the state, despite the growing literature on their importance in enhancing, suppressing or complementing other dimensions.

Our study

- If important psychosocial variables can be linked to clearing events, we may better understand how landholders make clearing decisions.
- This project will be the first to identify and create a spatially explicit map of the **driving psychosocial forces** of landholders in relation to land clearing in the Brigalow Belt South bioregion of Queensland.
- Also...
- Different **landholder typologies** based on demographic, economic, and cultural characteristics.
- Test psychosocial drivers of perverse policy outcomes, focusing on accelerated patterns of land clearing.

State Alexander Simmons is an aridland conservation biologist, and PhD candidate at the University of Queensland. He is broadly interested in landscape ecology, with a particular interest in the social dimensions of land clearing. He has a background in environmental science, and has additional expertise in behavioral ecology, ethnology, and community ecology, and is always ready to have a chat about his research. www.ceed.uq.edu.au/people/alexander-simmons Twitter: @AlexSimmons



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 THE CONQUEST

A Film by
 MARK LEWIS

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The Society for Conservation Biology
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 presents

An Evening of Film

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 Featuring the hilarious tale of one of Australia's most notorious environmental blunders

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 Schonell Theatre, UQ St Lucia Campus

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Doors open at 5:30PM

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 SOME MATERIAL MAY NOT BE SUITABLE FOR CHILDREN
 MILD THEMATIC ELEMENTS AND COURSE LANGUAGE

Online ticket sales: www.scbuq.weebly.com/movie-tickets
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DIVERSE CAREER PATHWAYS



Dr Adrian Ward
 Wollongong Group of Concerned Scientists,
 Global Change Institute

Dr Ayesha Tulloch
 CED Research Fellow, GED RIN,
 Greening Australia

Dr Jane McDonald
 QLD Department of Environment & Heritage Protection, Threatened Species Program

Dr Johannes Refisch
 Great Apes Survival Partnership (GRASP),
 United Nations Environment Programme

15 MARCH 5:00PM GODDARD 385

Biol Career Panel Q&A and networking

CEED

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Not every important output is a peer-reviewed article. Reports, white papers, policy briefs, and working papers are often important for researchers and practitioners looking to quickly communicate outcomes or progress to funders, policy makers, and other stakeholders. If you've got the text, I can help turn your drab report into a fab report to impress even the most cynical reader and give your work the beautiful packaging it deserves.

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IFE's purpose, vision and mission

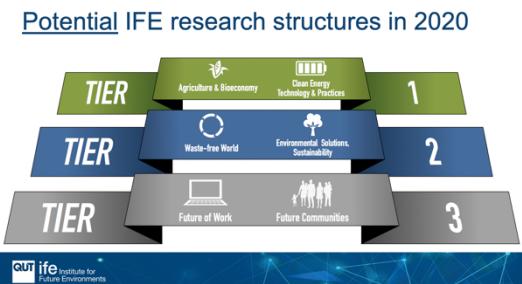
Catalyse sustainable futures

Amplify QUT research for real world impact

Create and exchange knowledge that makes our world more sustainable, secure and resilient

IFE's organisational values

- Connection
- Making a difference
- Empowerment
- Inclusion



COVER ART



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This booklet contains just a sample of the designs I've created with researchers around the world in the last decade. Contact me for more information about my services (including animated graphics not viewable in this booklet), discuss your design needs, or just to learn more about artistic endeavours in science.

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