

# DESIGN BOOK

B. ALEXANDER SIMMONS, PH.D.



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# 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

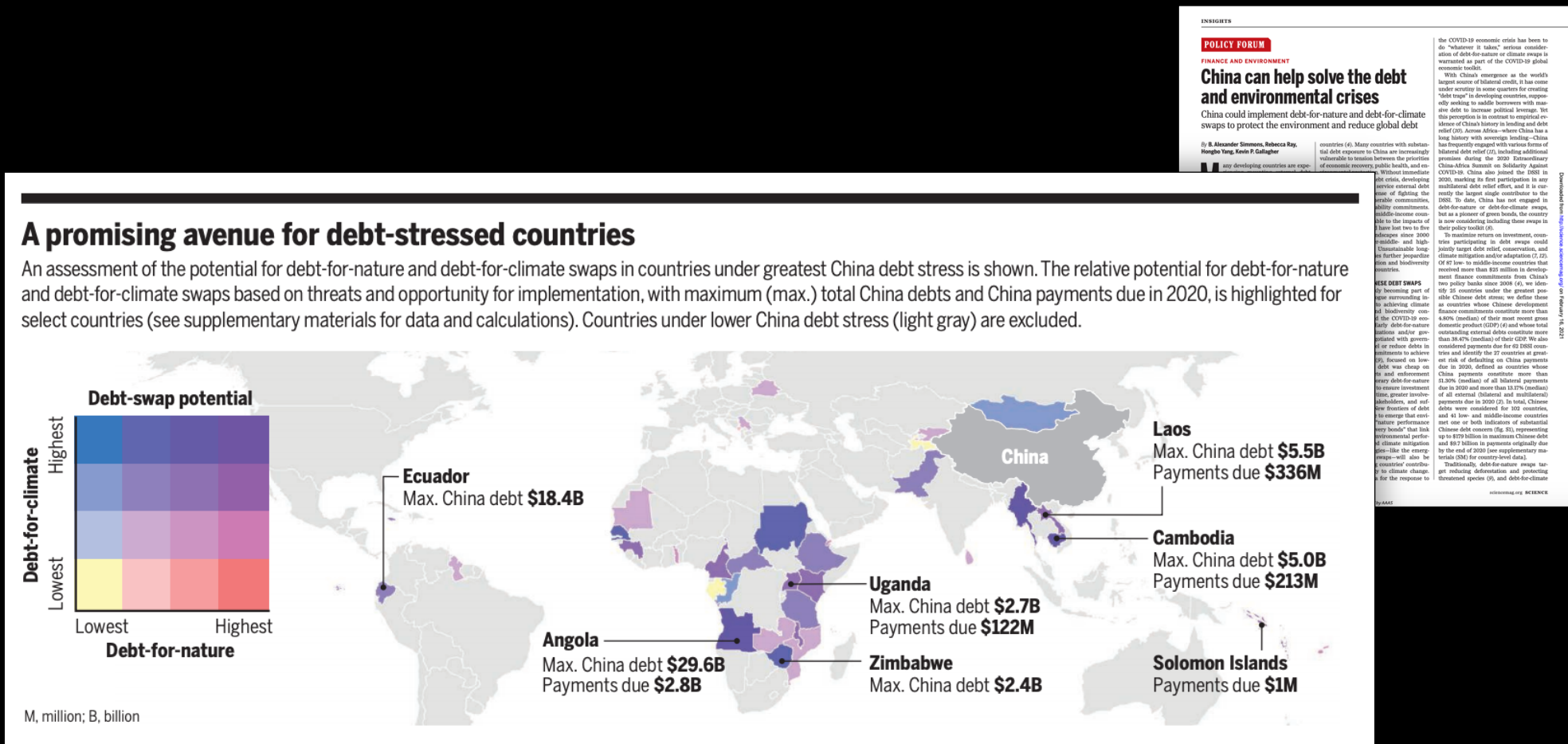
Art plays an important and frequently undervalued role in science. As any student of molecular biology will tell you, a good visualization can dramatically enhance comprehension of even the most complex phenomena. With so many people classified as visual learners, we must take our visualizations of scientific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





8

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One Earth

Perspective

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

Vanessa M. Adams,<sup>1,2,\*</sup> Megan Barnes,<sup>3,4</sup> and Robert L. Pressey<sup>1</sup>  
<sup>1</sup>School of Geography and Spatial Sciences, University of Tasmania, Hobart, TAS 7001, Australia  
<sup>2</sup>Department of Biological Sciences, Macquarie University, North Ryde, NSW 2109, Australia  
<sup>3</sup>Department of Natural Resources and Environmental Management, College of Tropical Resources and Agriculture, University of Hawaii, Manoa, Honolulu, HI 96822, USA  
<sup>4</sup>Biodiversity and Conservation Science, Department of Biodiversity, Conservation and Attractions, Katerina-McNamara Conservation Science Centre, 17 Dink Perry Avenue, Kensington WA 6151, Australia  
<sup>5</sup>ARC Centre of Excellence for Coral Reef Studies, James Cook University, Townsville, QLD 4811, Australia  
<sup>\*</sup>Correspondence: [van.adams@utas.edu.au](mailto:van.adams@utas.edu.au)  
<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 contextual shortcomings. Here, we make a call for counterfactual thinking—asking the question “what would have happened in the absence of an intervention?”—with the support of field more thoughtful consideration of human dimensions and behavior. We review evaluation approaches and highlight the advantages of counterfactual approach. We also illustrate how even robust estimates of ecological impact can fail to policy interventions. The latter depend importantly on human preferences and incentives that cannot be captured by studies of ecological impact. We argue 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) global assessment report on biodiversity and ecosystem services, nature underpins a variety of concepts including biodiversity, ecosystems, and systems of life. Collectively, it is agreed 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, indicators show that biodiversity and ecosystem services are globally in decline,<sup>1</sup> demonstrating an urgent need for increased conservation efforts. To address these declines, varied conservation efforts are needed<sup>2</sup> that can address diverse causes of decline. This includes efforts to address protection of nature as well as restoration of degraded habitats. Understanding the conservation context and selecting an appropriate intervention to address biodiversity declines broadly requires setting a goal, understanding the threats, and identifying an intervention that reduces these threats to achieve the goal.<sup>3</sup> However, threats to biodiversity are varied, so required interventions are equally diverse. They include protection, restoration, law and policy, incentive programs, and education and awareness campaigns.<sup>4</sup> An improved understanding of the impact of conservation interventions is needed so that limited conservation funds can be better targeted to maximize biodiversity outcomes. This can be achieved by building a clear evidence base of what conservation interventions have worked, then translating the evidence into new contexts to design effective future interventions.

The first calls for empirical investigations are most evaluations in other fields routinely apply counterfactual or quasi-experimental methods. Counterfactual analysis, causal inference by assessing the absence of an interest mechanism underlying the correlation, including bias in partitions are the for its analysis requires consistent from and anticipating the identification of confounding factors or spurious ecological studies. This is to consider heterogeneity most appropriate intervention between effect or less and Conservation of Nature (protected areas).<sup>5</sup> Once the theory of change or causal deep approaches, control and intervention sites. Traditional evaluation evidence for the benefits repeated projects in some

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One Earth 1, September 20, 2019 © 2019 Elsevier Inc.

# One Earth Perspective

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.<sup>21,29</sup> 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.<sup>21,29</sup>  
(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.

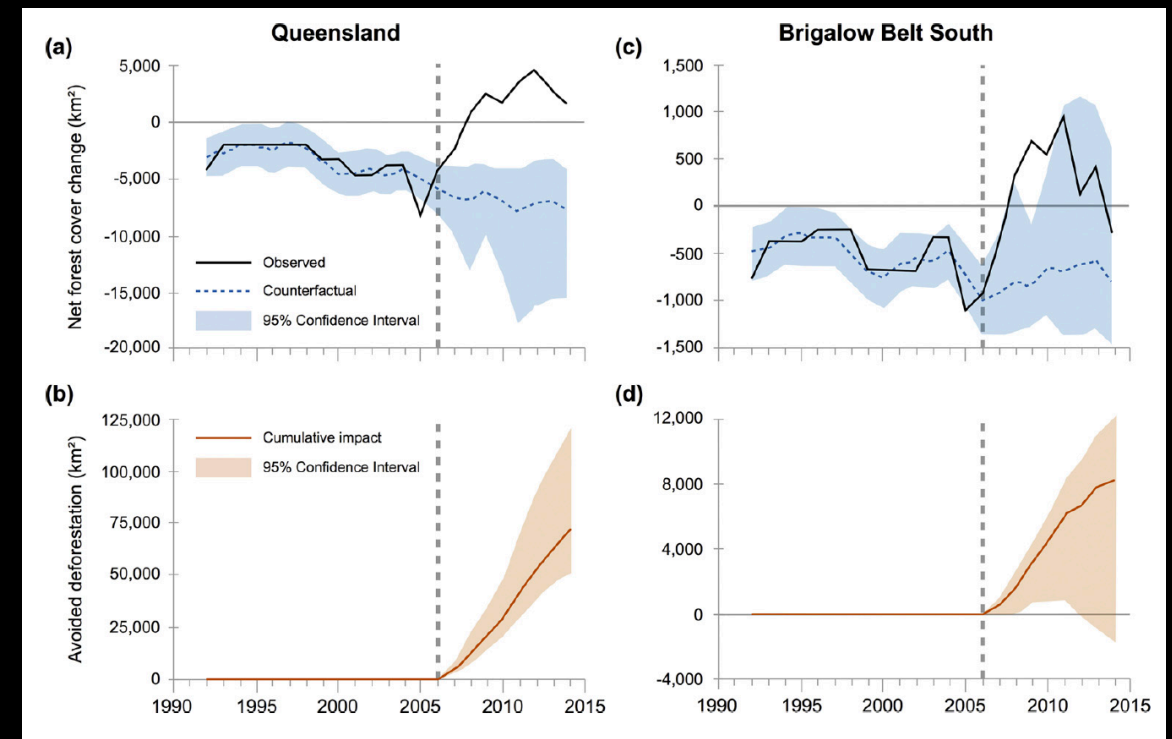
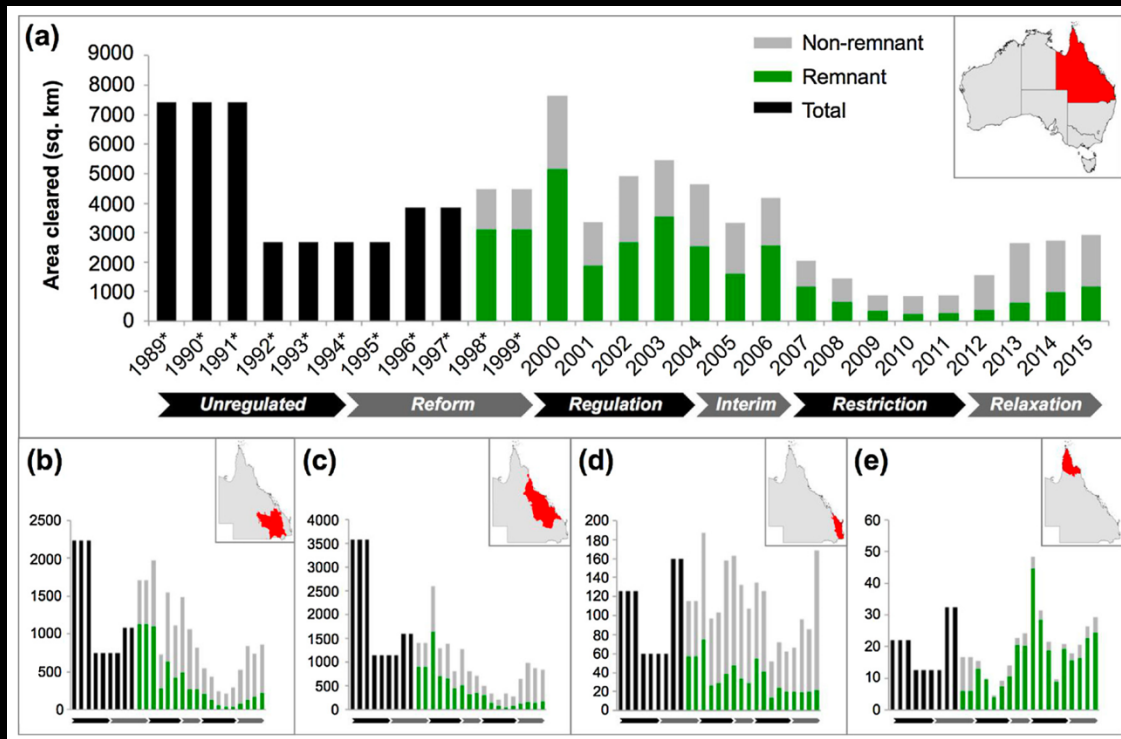
by interdisciplinary groups or applied economists.<sup>7,14–22</sup> The majority of evaluations in practice still rely on simple before-after or control-intervention approaches (discussed in detail in the

CellPress

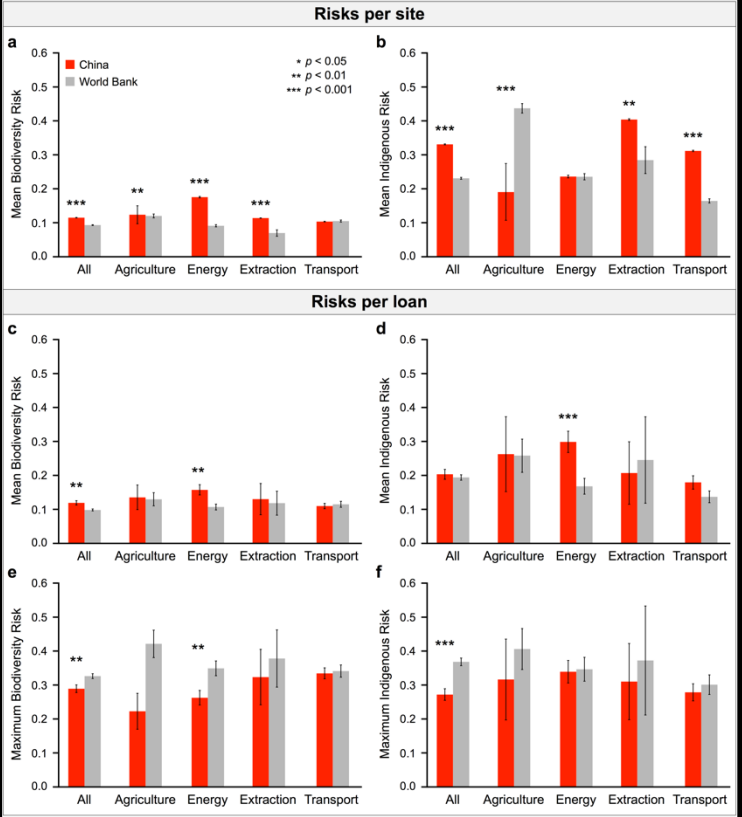
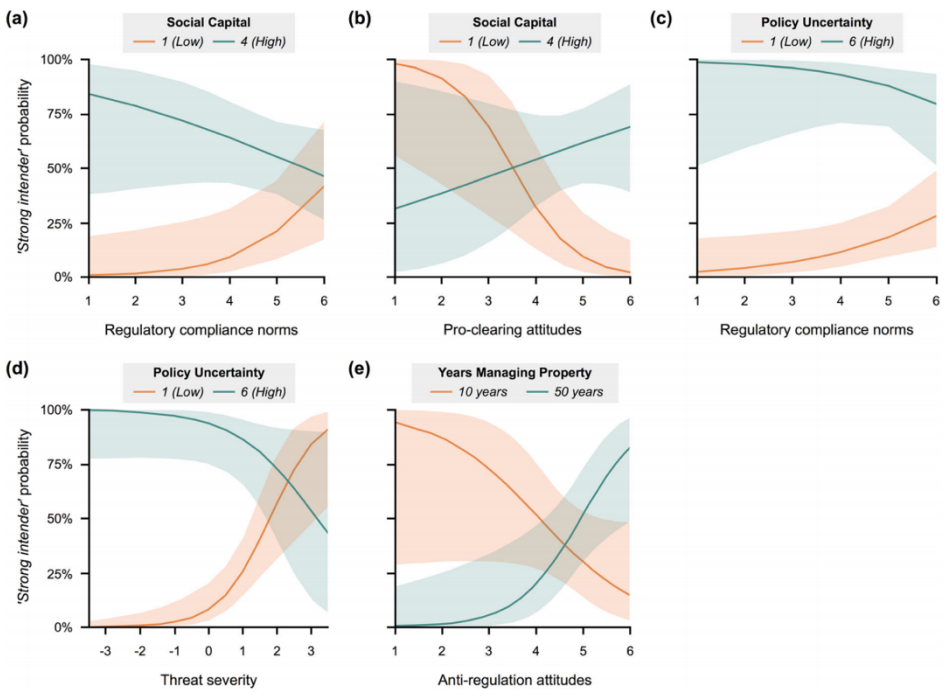
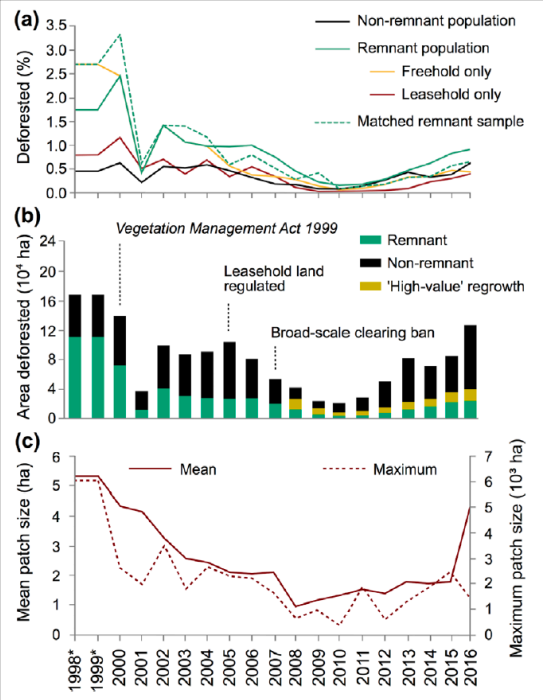
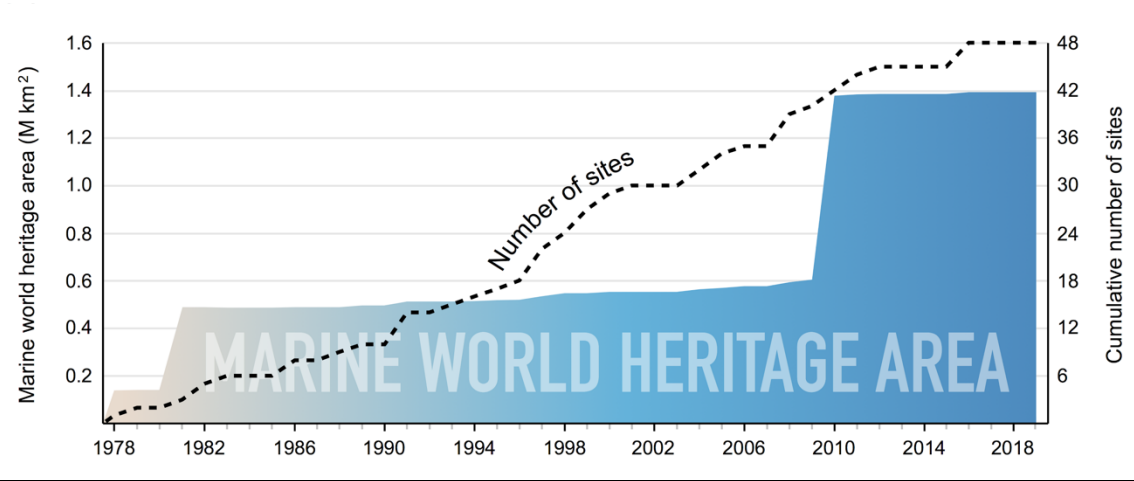
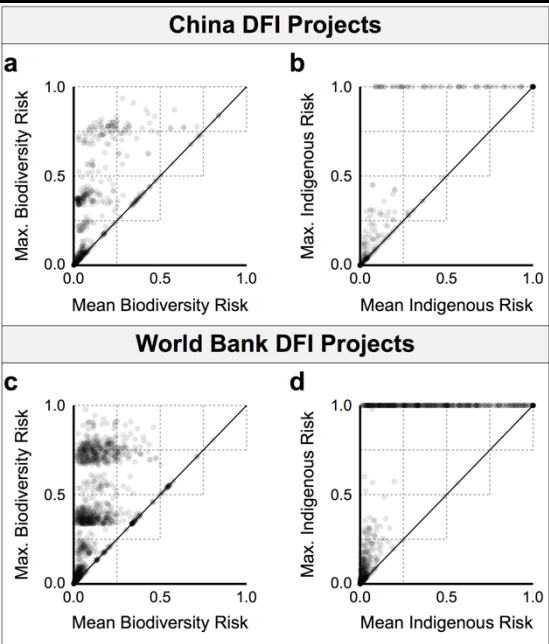
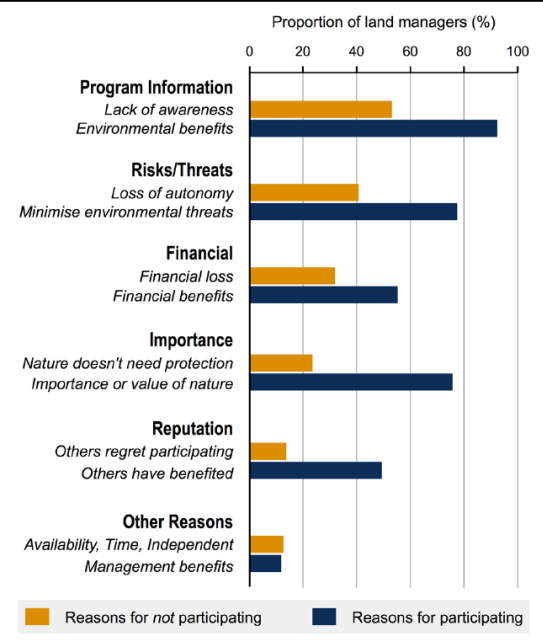
Figure360

# 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.

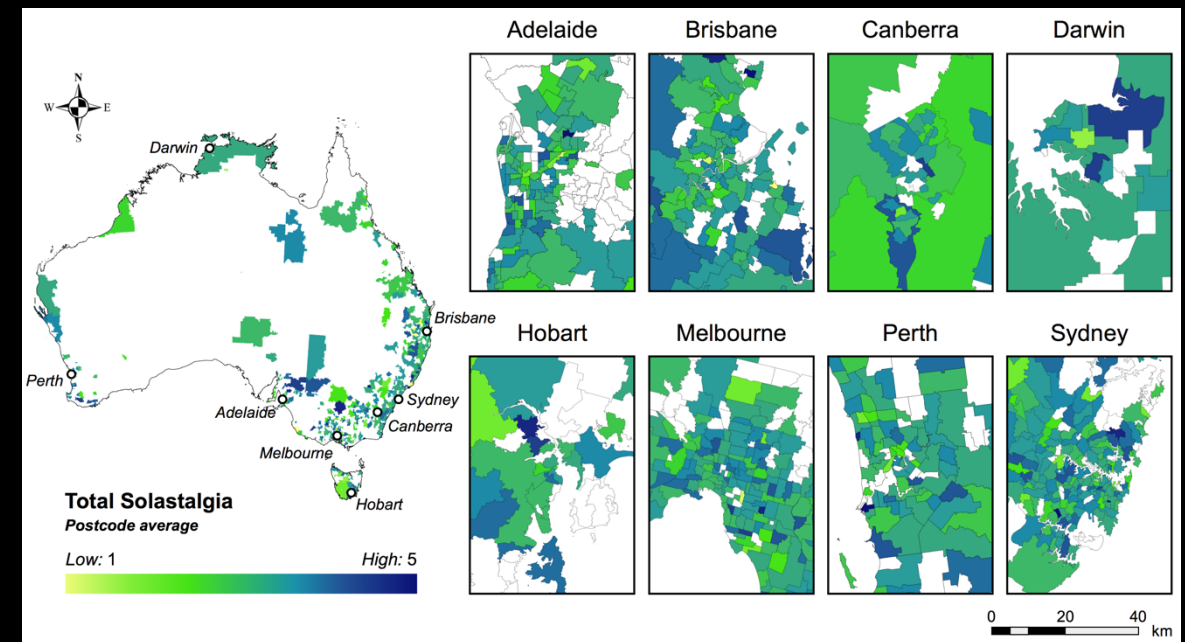
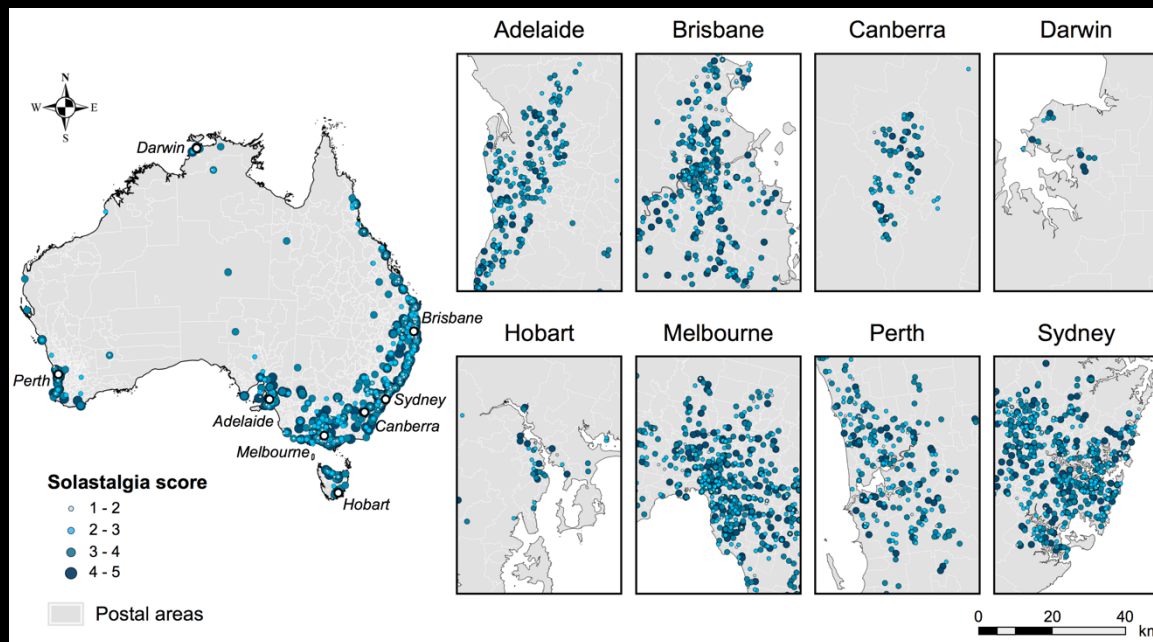


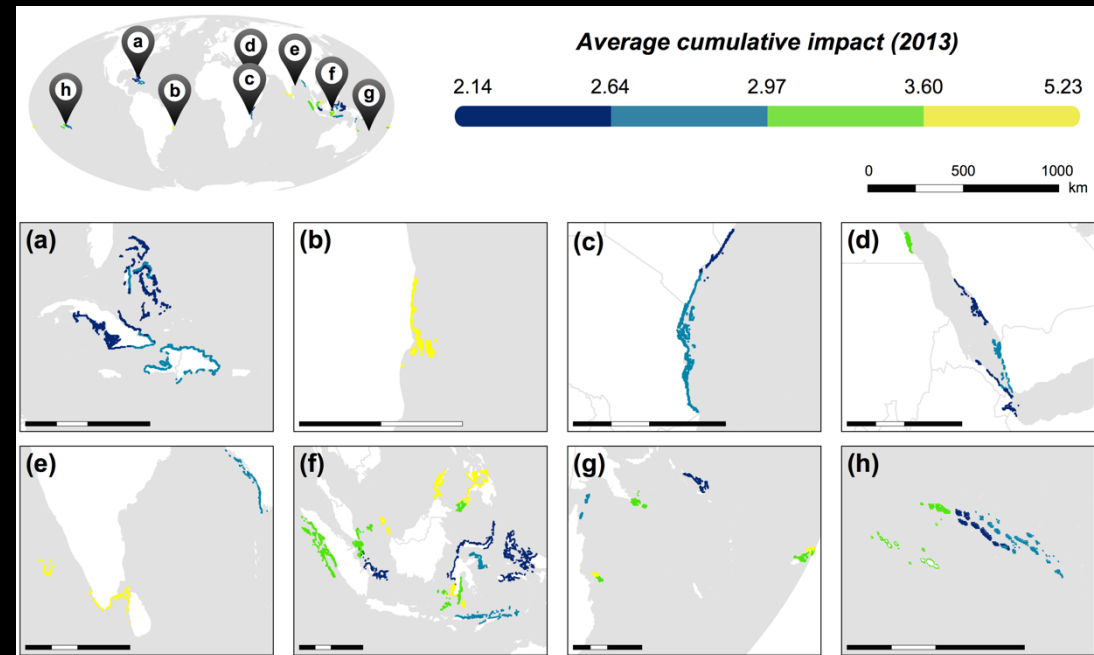
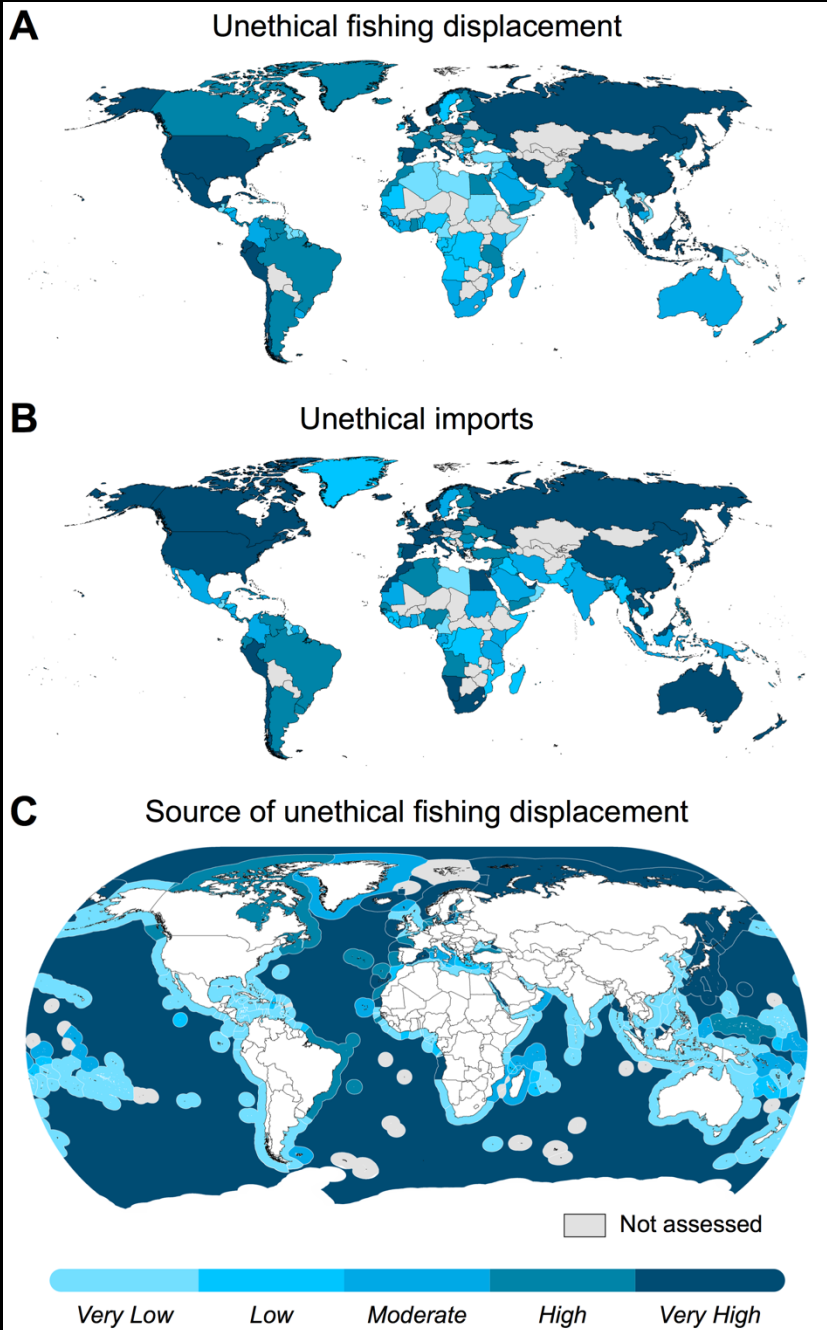




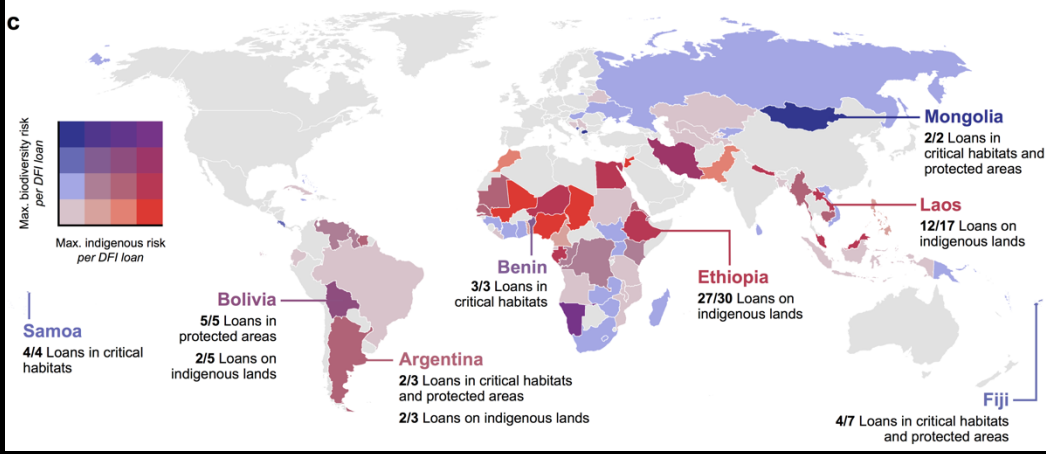
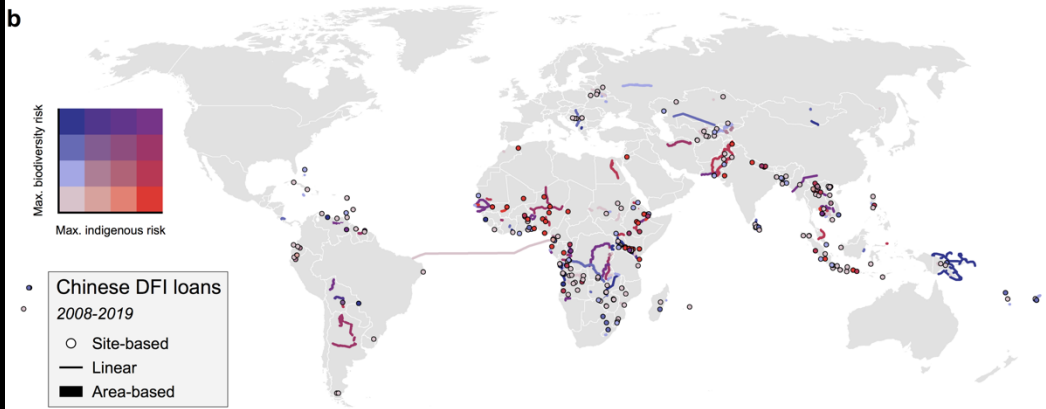
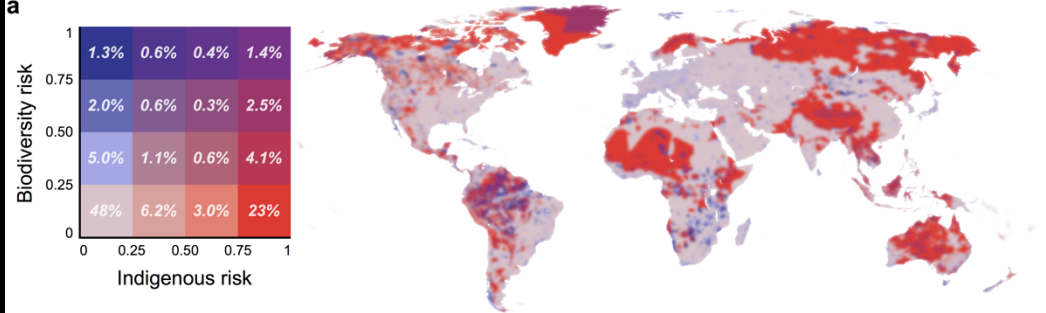
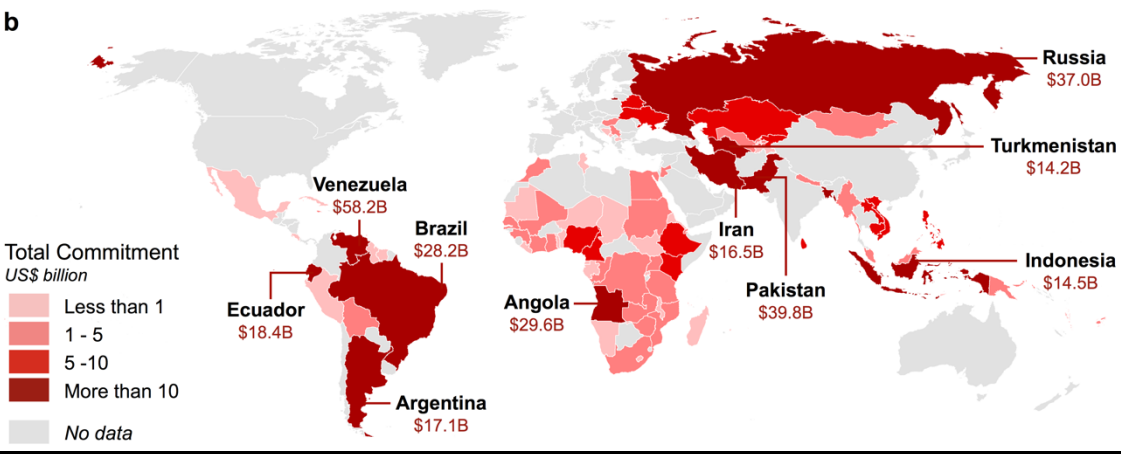
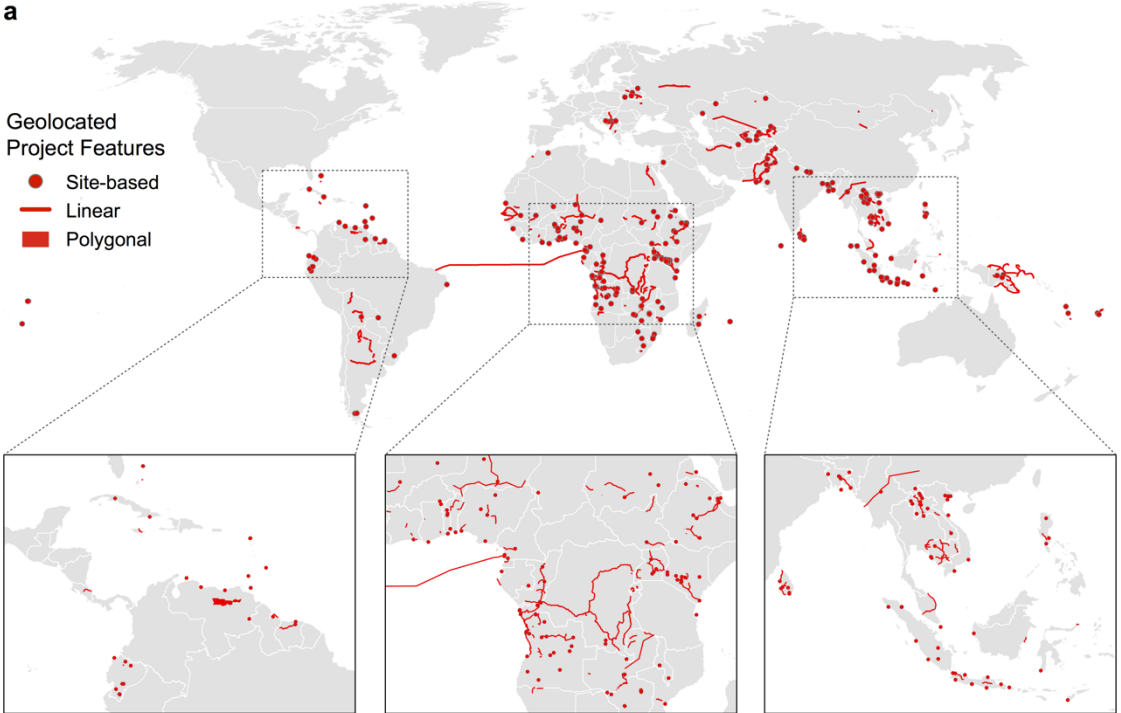
# Maps

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.



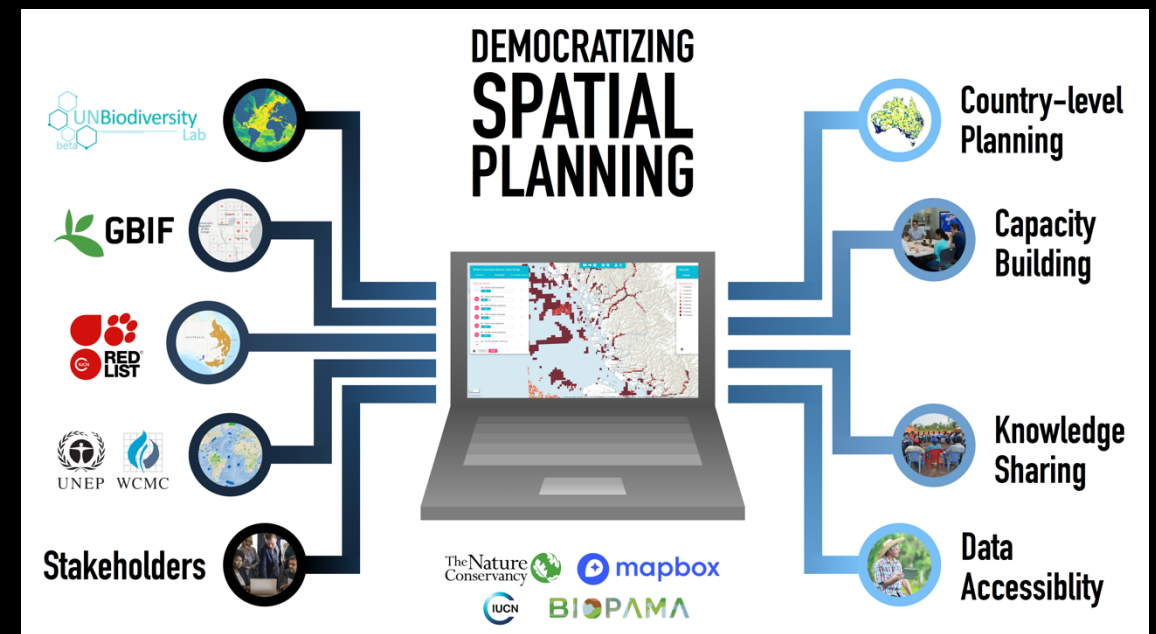
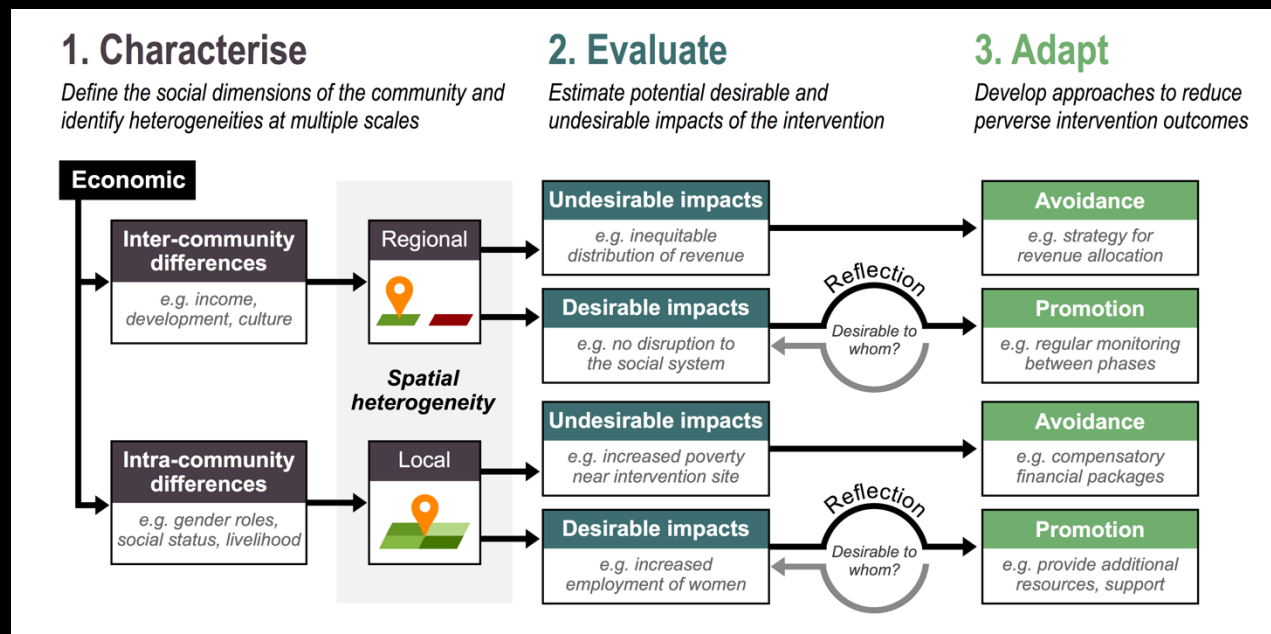






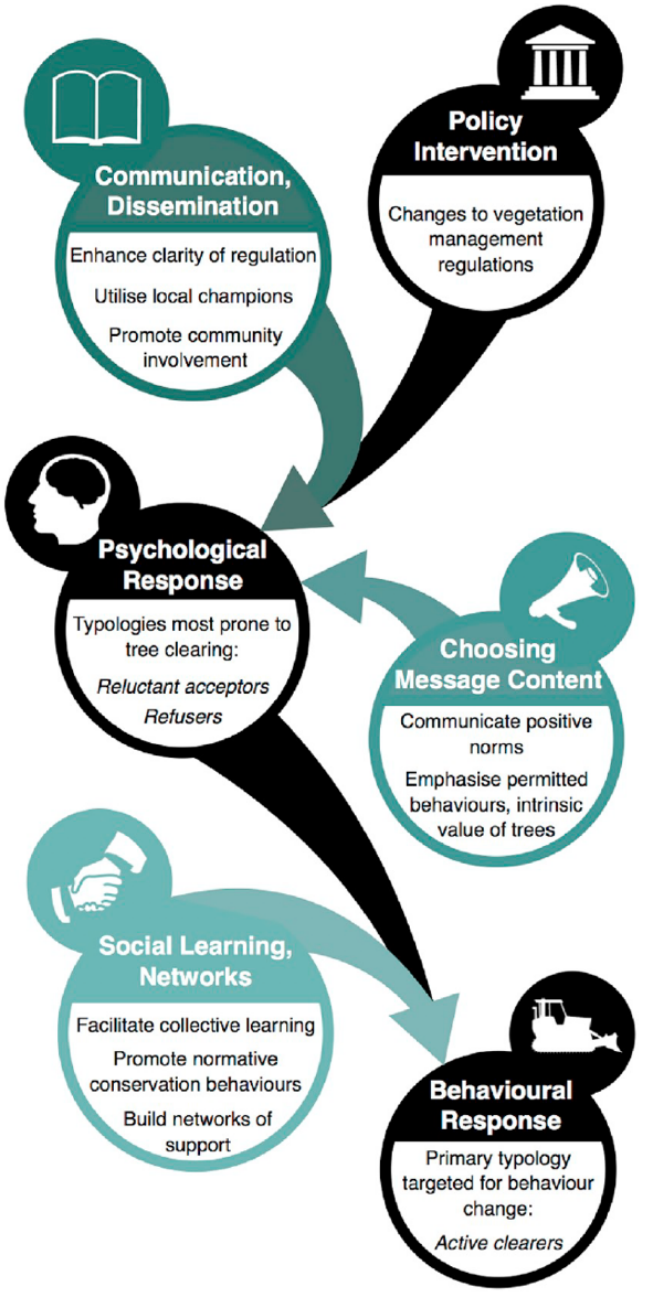
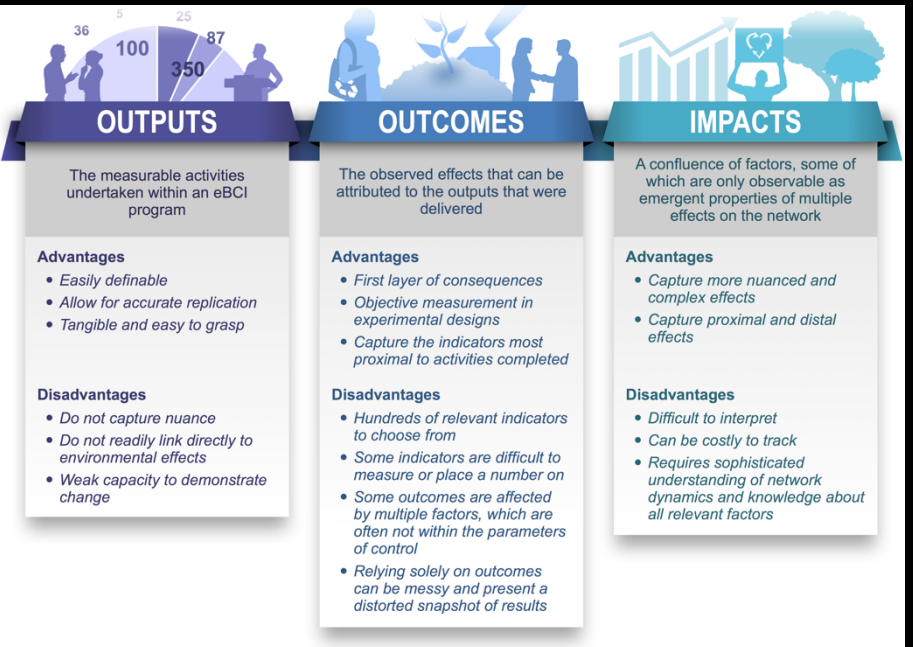
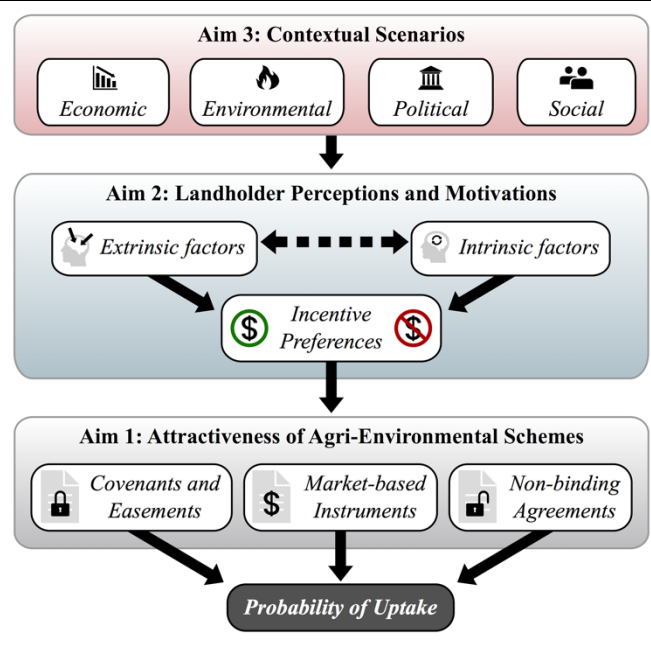
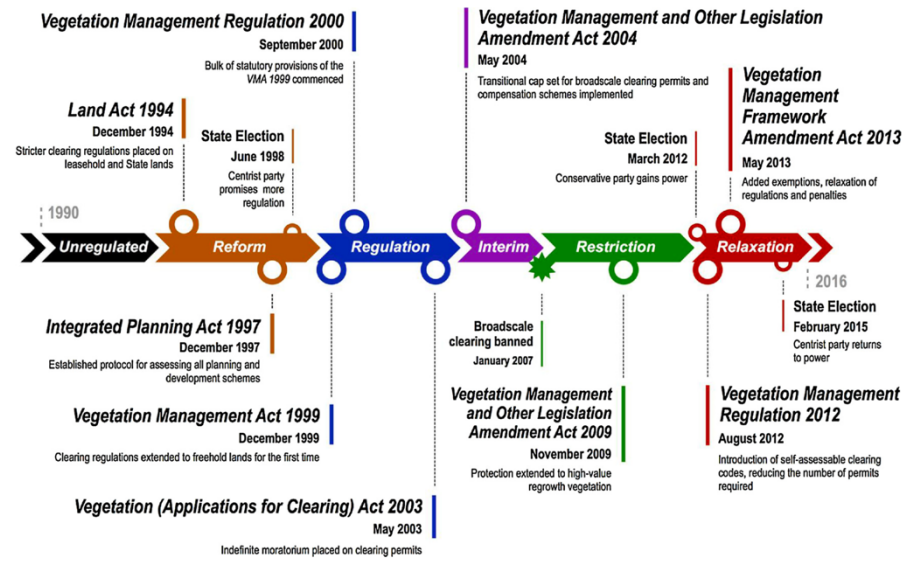
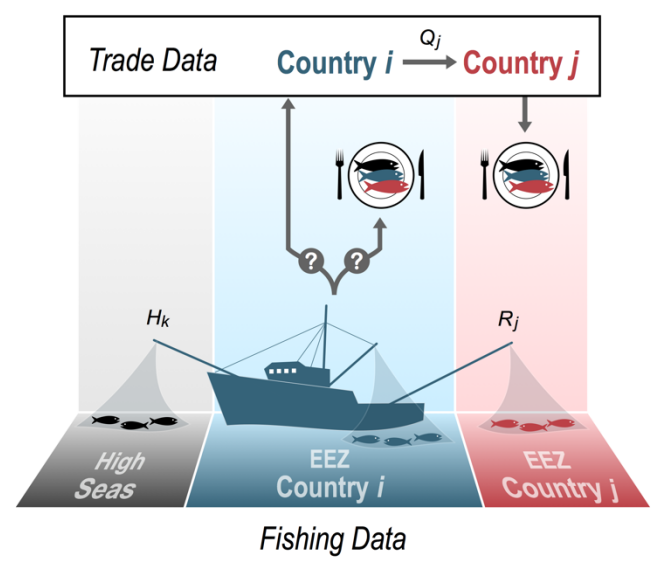
# Diagrams

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.



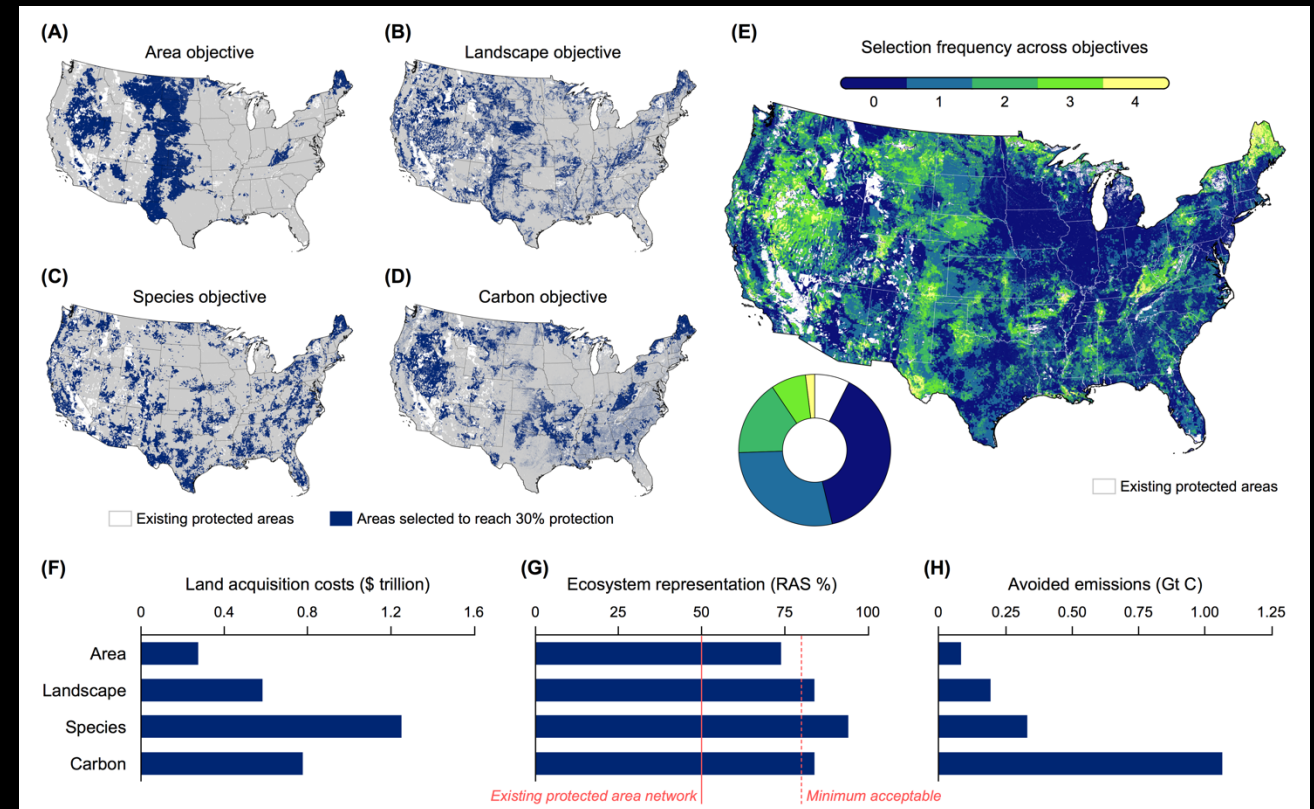
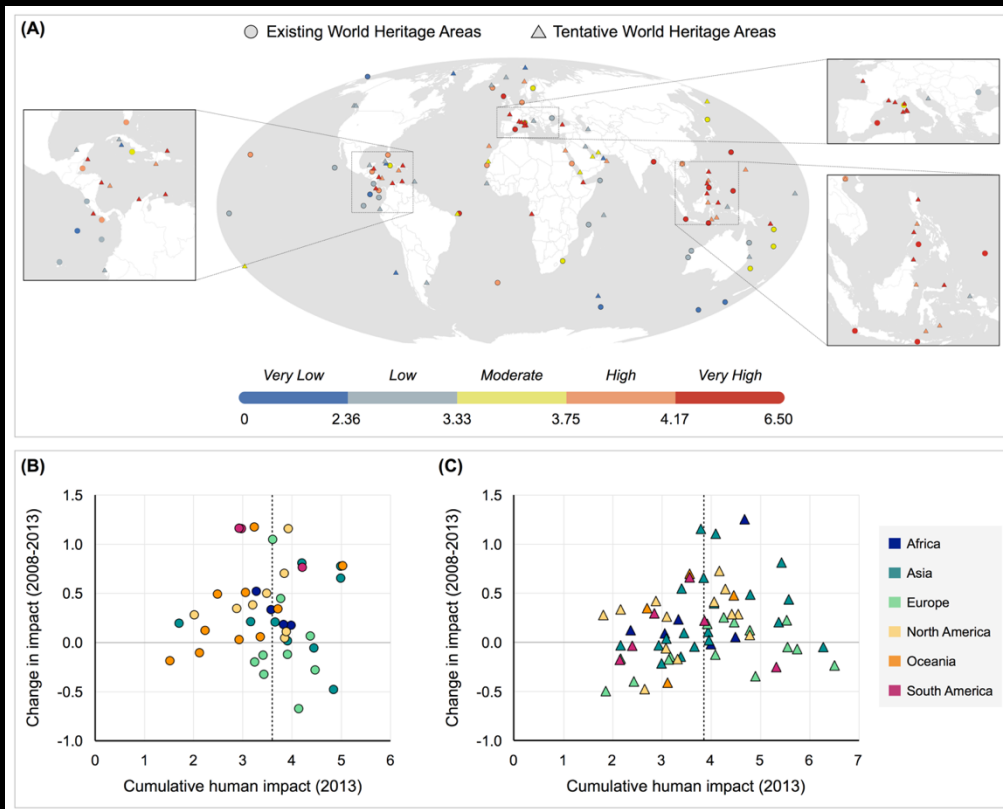






# Hybrids

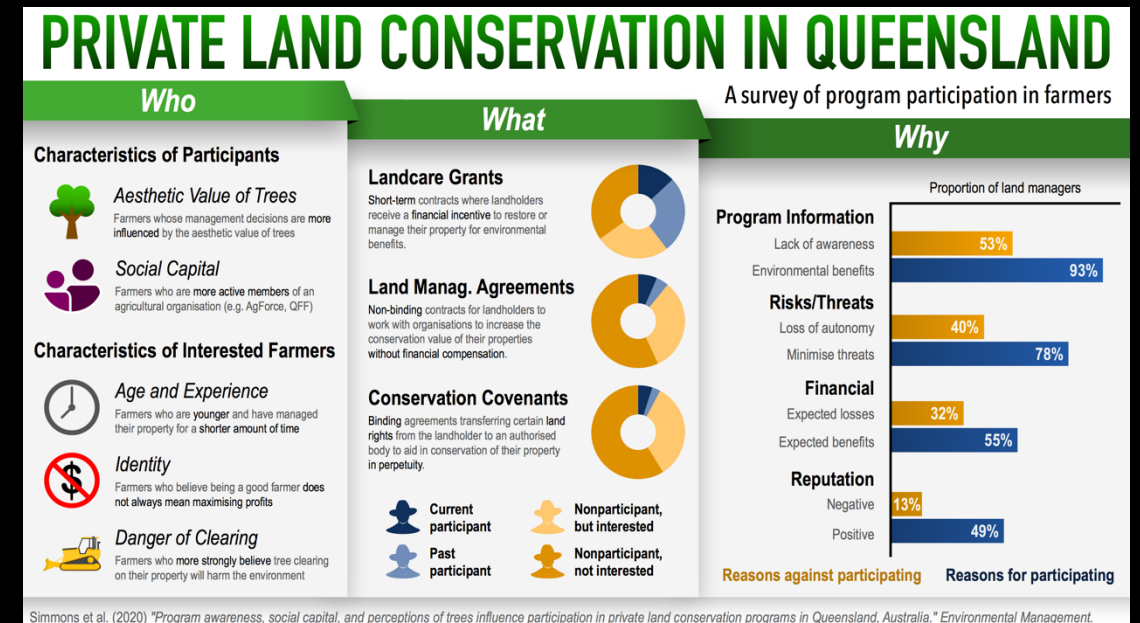
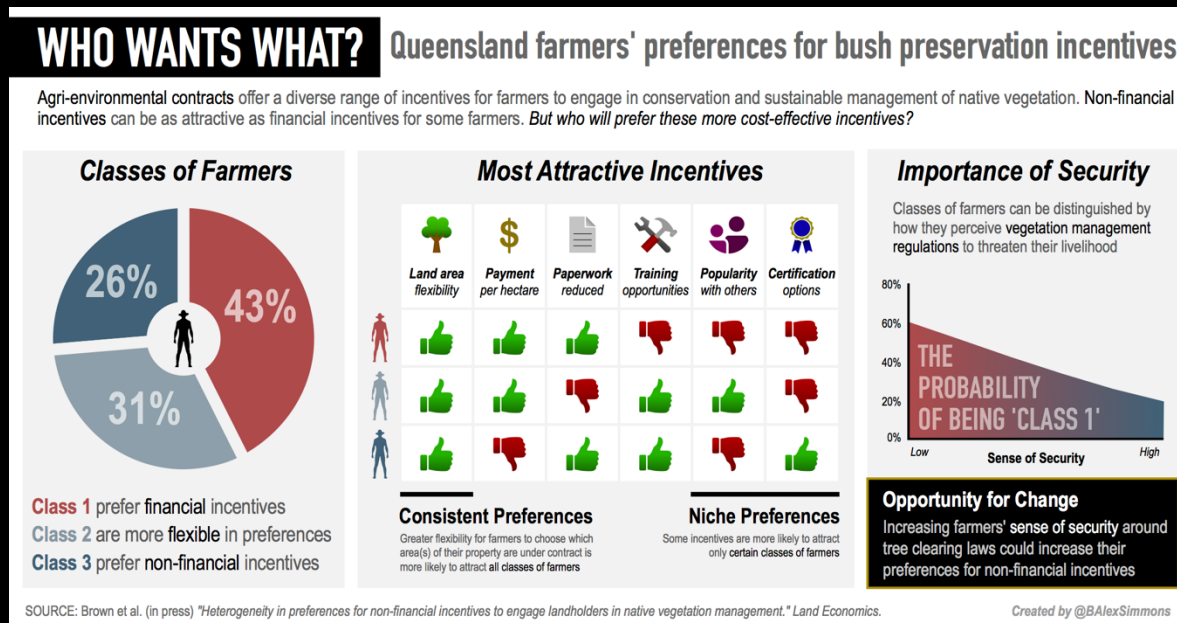
Often, merging graphs and maps into a single figure will be advantageous for researchers – whether it's to enhance the clarity of a complex message or because of limitations in the number of figures that a journal accepts. These hybrid designs are often more impactful because they present a more complete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

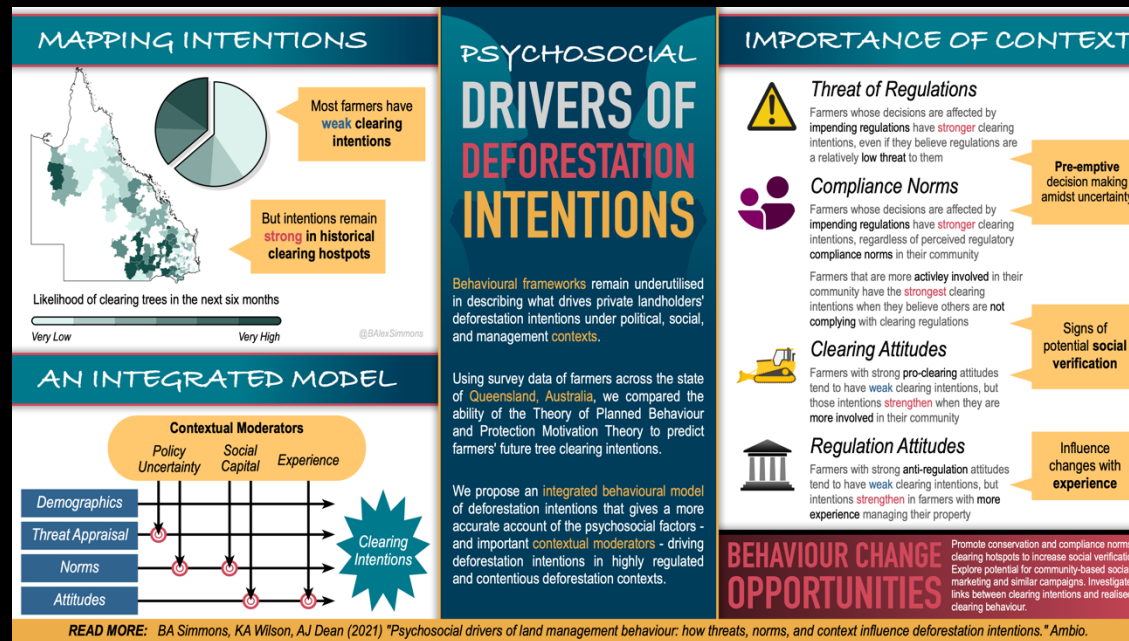




# Infographics

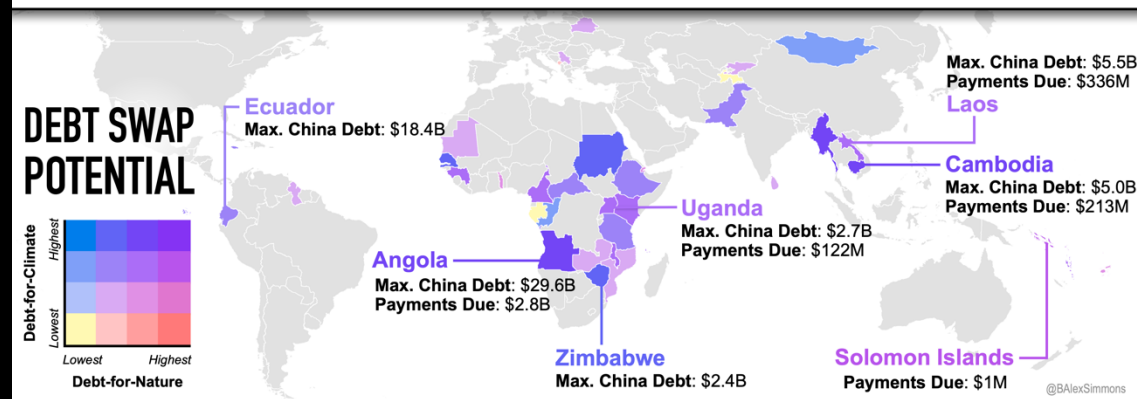
Probably the most satisfying projects for me are those involving infographics. Infographics are the 'mixed media art' of the graphic design world, sometimes incorporating text, graphs, maps, tables, and diagrams all in one image that summarizes the key messages of a project. Because of their ability 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**.



Learn more...

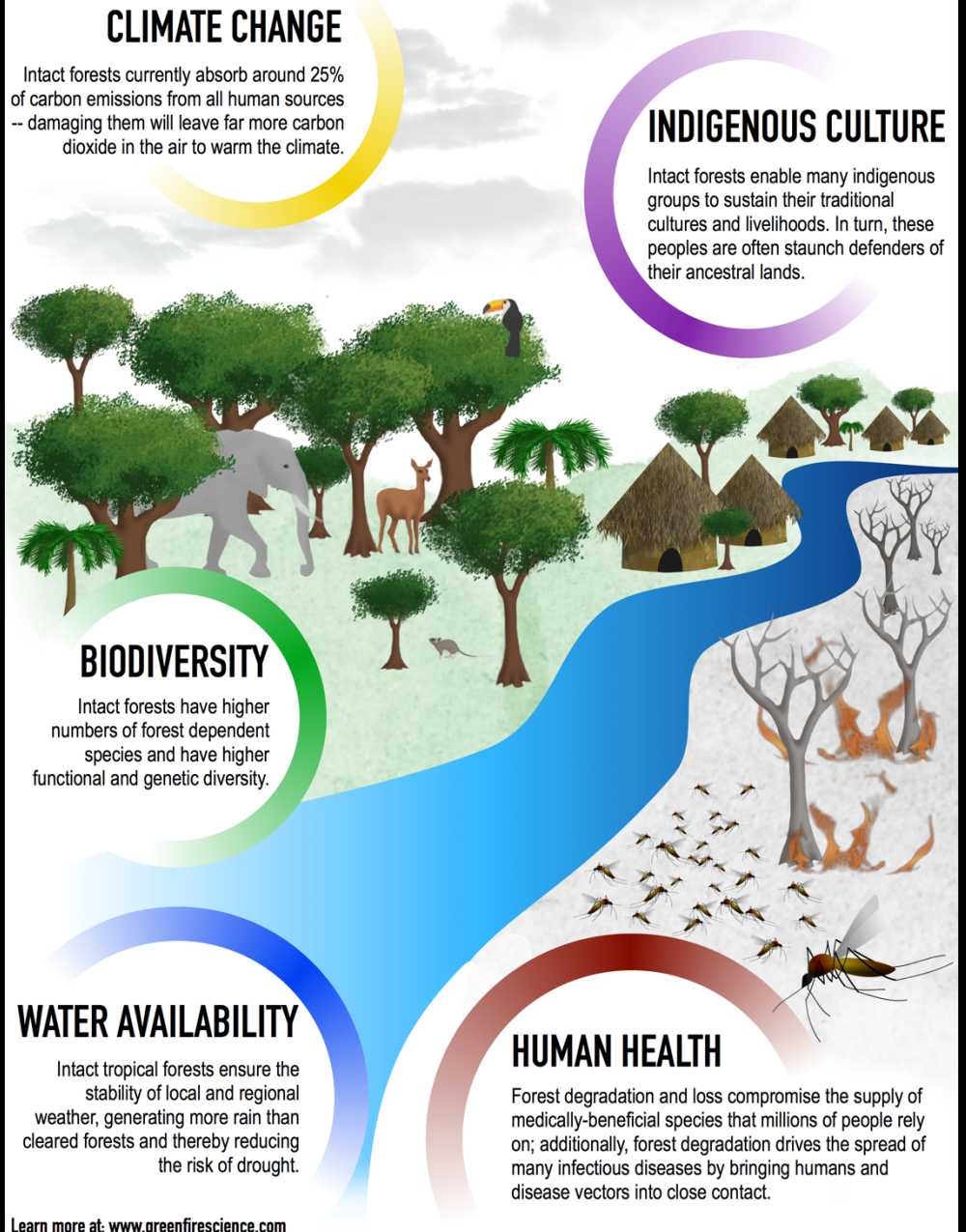
**ARTICLE**

B. A. Simmons et al. (2021) China can help solve the debt and environmental crises. *Science* 371: 468-470.

**WEBINAR**

Wednesday, Feb. 3, 2021, 9:30-10:30 AM EST  
gdpcenter.org/3iMGFK3

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## SOCIAL DIMENSIONS OF LAND CLEARING

Landholder typologies, attitudes, and behaviours in Queensland, Australia

Blake Alexander Simmons\*, Angela Dean\*, Clive McAlpine\*, Elizabeth A Law\*, Kerrie A Wilson\*

\*ARC Centre of Excellence for Environmental Decisions, School of Biological Sciences, University of Queensland, St. Lucia, QLD 4072, Australia  
 \*School of Geography, Planning and Environmental Management, University of Queensland, St. Lucia, QLD 4072, Australia  
 Email: b.simmons@uq.edu.au @BAlexSimmons

### Land clearing impacts and inconsistencies

- Historically, land clearing rates in Australia have been among the highest in the world, with the majority of recent clearing occurring in Queensland.
- Despite the vegetation management policies enacted in the early 2000s, policy progression and inconsistencies have likely elicited perverse outcomes, such as pre-emptive or 'panic' clearing from landholders.
- Unlike other regions of Queensland, the Brigalow Belt South bioregion consists of patchy hot- and cold-spots of clearing.
- This high degree of clearing heterogeneity may be indicative of:
  - Biophysical constraints (what can be cleared)
  - Industry/demographic differences (why it should be cleared)
  - Cultural/social differences (what is socially cleared)

### Mapping psychosocial drivers of behaviour


- To ensure policy will be effective and consistent, it must balance the needs of the environment with the needs, values, and motivations of landholders.
- Different types of landholders may have distinct combinations of psychosocial qualities, and may perform different environmental behaviours.
- We will investigate how these behavioural modifiers affect landholders' clearing decisions, and if they explain the extent of clearing in the bioregion.

### Creating behavioural change

- The knowledge of spatial heterogeneities in such personal, intrinsic motivational characteristics will yield new insights into:
  - Where particular land management actions will be most desirable
  - Where inconsistencies between intentions and actual behaviours might exist
  - Where different policy instruments, 'intervention-based' approaches, and message frames may be most successful

### 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.
- Aims:
  - Identify different landholder typologies based on demographic, economic, and cultural characteristics
  - Test psychosocial drivers of perverse policy outcomes, focussing on accelerated patterns of land clearing



## CANE TOADS

### THE CONQUEST

A Film by MARK LEWIS

AUSTRALIA'S PUBLIC ENEMY NUMBER ONE

The Society for Conservation Biology  
UQ/Brisbane Chapter  
presents

An Evening of Film

Showcasing compelling conservation student short films  
Featuring the hilarious tale of one of Australia's most notorious environmental blunders

6:00PM Wednesday, 14 September 2016  
Schonell Theatre, UQ St Lucia Campus

SCB Members: \$10  
Concession: \$12  
Full: \$15

Doors open at 5:30PM

PG PARENTAL GUIDANCE SUGGESTED  
SOME MATERIAL MAY NOT BE SUITABLE FOR CHILDREN  
MILD THEMATIC ELEMENTS AND COARSE LANGUAGE

Online ticket sales: [www.scbuq.weebly.com/movie-tickets](http://www.scbuq.weebly.com/movie-tickets)  
Ticket sales at the door (cash only) are subject to availability

## DIVERSE CAREER PATHWAYS



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

Dr Ayesha Tulloch  
CEED Research Fellow, CED BOM, Greening Australia

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

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

## 15 MARCH 5:00PM

### GODDARD 385

BIOL Career Panel Q&A and networking

ceed

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.



# WORKSHOP REPORT

Identifying behaviour intervention strategies for positive social and environmental outcomes in Queensland's threatened ecosystems

18-20 September 2019

PREPARED BY  
Blake Alexander Simmons

Centre for Biodiversity and Environmental Science  
School of Earth and Environmental Science  
The University of Queensland

## Line of the workshop and objectives

Queensland's natural environments are under anthropogenic pressure. Despite efforts to support stronger natural policy reform, relying solely on government intervention is unlikely to achieve the desired outcomes. Creating resilient landscapes requires the biggest challenge for government is to ensure that the actions of those who are not directly involved in the process are aligned with the government's objectives. This workshop was designed to tackle the most pressing environmental challenges facing Queensland, with the aim of identifying new ways to create effective environmental outcomes in Queensland's threatened ecosystems.

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## Activities

The workshop consisted of the following activities:

- Pre-workshop survey** All participants were asked to complete a short survey prior to the workshop. The survey was designed to gather information on participants' knowledge, experience, and interests. The survey results were used to inform the workshop agenda and to ensure that the workshop was relevant to participants' needs.
- Workshop sessions** The workshop was divided into several sessions, each focusing on a different aspect of the workshop objectives. The sessions were designed to be interactive and to allow participants to share their knowledge and experience with each other.
- Networking** The workshop provided an opportunity for participants to network with each other and with experts in the field. This was done through a variety of activities, including group discussions, presentations, and social events.

## Figure 1.1

Representation of participants in the pre-workshop survey. The survey was designed to gather information on participants' knowledge, experience, and interests. The survey results were used to inform the workshop agenda and to ensure that the workshop was relevant to participants' needs.

The survey results were used to inform the workshop agenda and to ensure that the workshop was relevant to participants' needs.

## Managing Threats to Migratory Shorebirds in Moreton Bay

Prepared by  
Richard A. Fuller  
Robert S. Clements  
Bradley K. Woodworth  
Dylan Moffitt  
Rochelle Stevens  
B. Alexander Simmons

## Figure 5.11

Examples of species found in infusural samples. Most species were from one of three phyla: Arthropoda, molluscs (M), Mollusca, brachyopods and gastropods (G), and Annelida, polychaetes and allies (Aa).

## Figure 5.6

Area of intertidal habitat exposed at the midpoint of each decade of the observed tidal range, from the highest observed tide on the left to the lowest observed tide on the right. For the whole of Moreton Bay, for example, a half-tide (50% tidal range) plot would show only relatively brief periods for the most extensive areas of their foraging grounds when the tide is low. Data from Geoscience Australia (2016).

## Figure 5.6

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## LOGOS



## FASHION DESIGN



## PRESENTATIONS

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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

**Potential IFE research structures in 2020**

TIER	1	2	3
	Agriculture & Bioeconomy	Clean Energy Technology & Practices	
		Waste-free World	Environmental Solutions, Sustainability
		Future of Work	Future Communities

## COVER ART





# CONTACT

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.

For many small projects, I do not charge a fee – I just love getting more opportunity to be creative! For more intensive or complex projects, I offer flexible payment options and will work with your budget. I also regularly run an hour-long professional development seminar for scientists on data visualization called, "Beautifying Your Research: tips and tricks for creating high-impact figures." Please reach out if you would like to participate in an upcoming seminar or schedule one for you and your colleagues, lab group, or department.

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