Exploring students' conservation views

Using the Future of Conservation statements in a multi-university before after study

Supervisory team:

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Overview

- Context: brief outline of my wider PhD project and where the FOC statements fit in
- **Before-after study**: the methods and use of FOC statements
- Summary feedback: ways in which FOC analysis delivered back to participants
- Going forward: plans and potential research avenues

PhD research project

Investigating the role of higher education in shaping views and skills of conservation students

chl. content

What content is being taught?

ch3. motives + views

What are students' motives and views on entering education?

ch2. skills

What skills do educators aim to develop?

ch4. before-after

Do students' views change & if so, to what extent linked to student/education factors?

Preparing students for wicked conservation problems

Defy simple definition

WICKED PROBLEMS

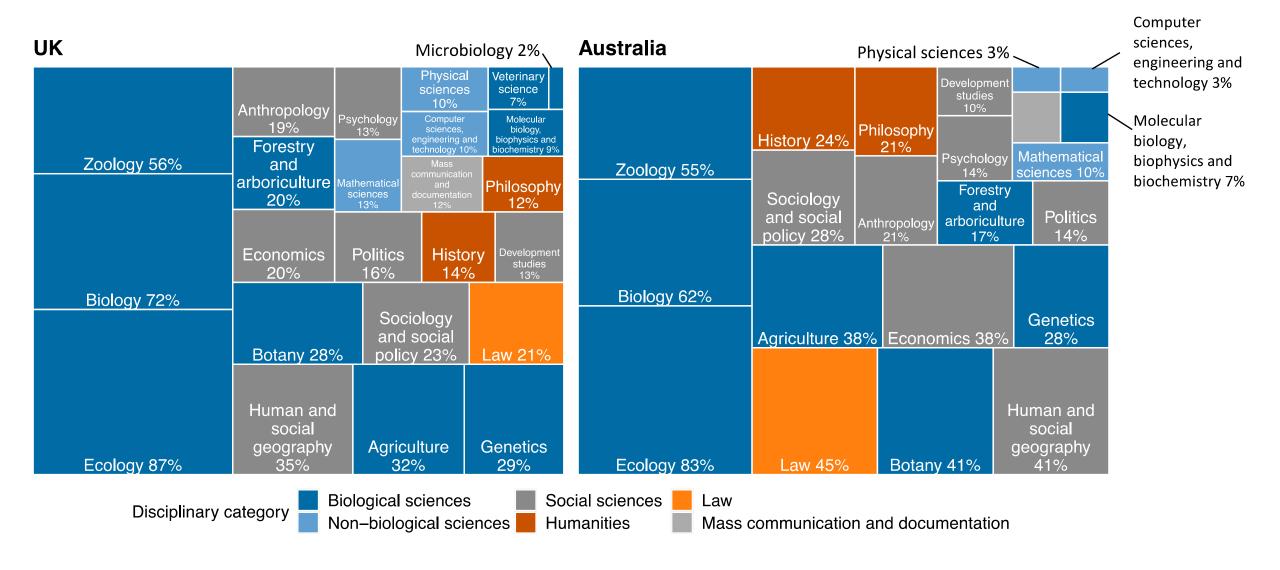
No clear end, no 'stopping' rule

Uncertainty in risks and consequences

Divergent values and perspectives

Demands boundary-spanning and integration skills

ch1. content

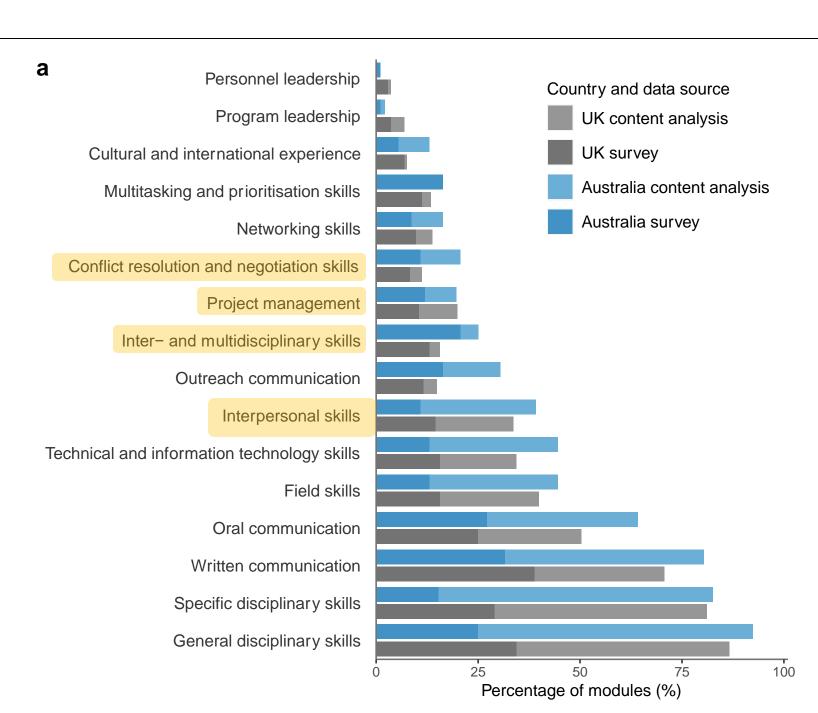


- Percentages out of 117 UK conservation modules and 29 Australian conservation modules

ch2. skills

Needed for tackling wicked problems & essential for non-academic conservation careers





Preparing students for wicked conservation problems

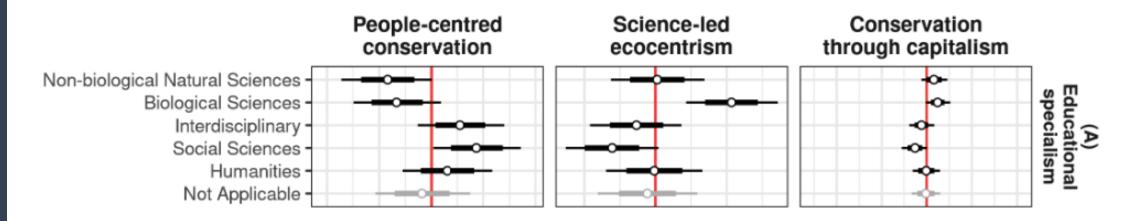
Defy simple definition

WICKED PROBLEMS No clear end, no 'stopping' rule

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Following on from FOC findings:



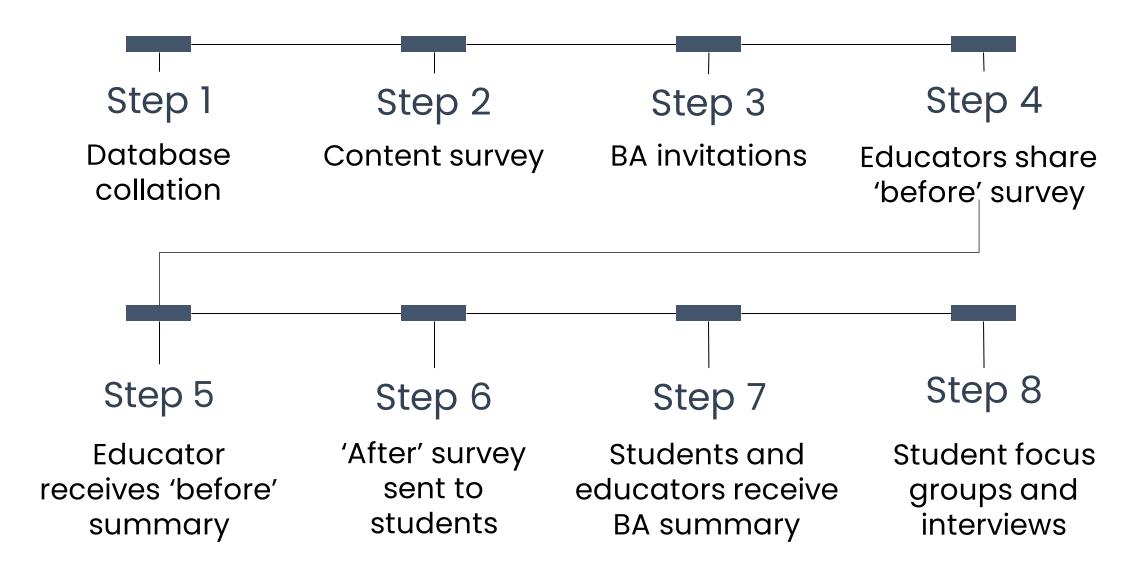
Cropped figure from Loque-Lora et al., (2022)

My research trying to unpick some of these findings:

 investigate whether differences in dimension scores by student and education characteristics 4.

Beforeafter survey study

Before-after study steps



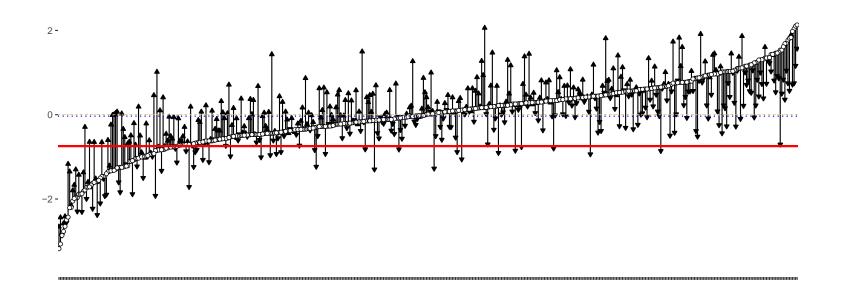
Ongoing before-after analysis:

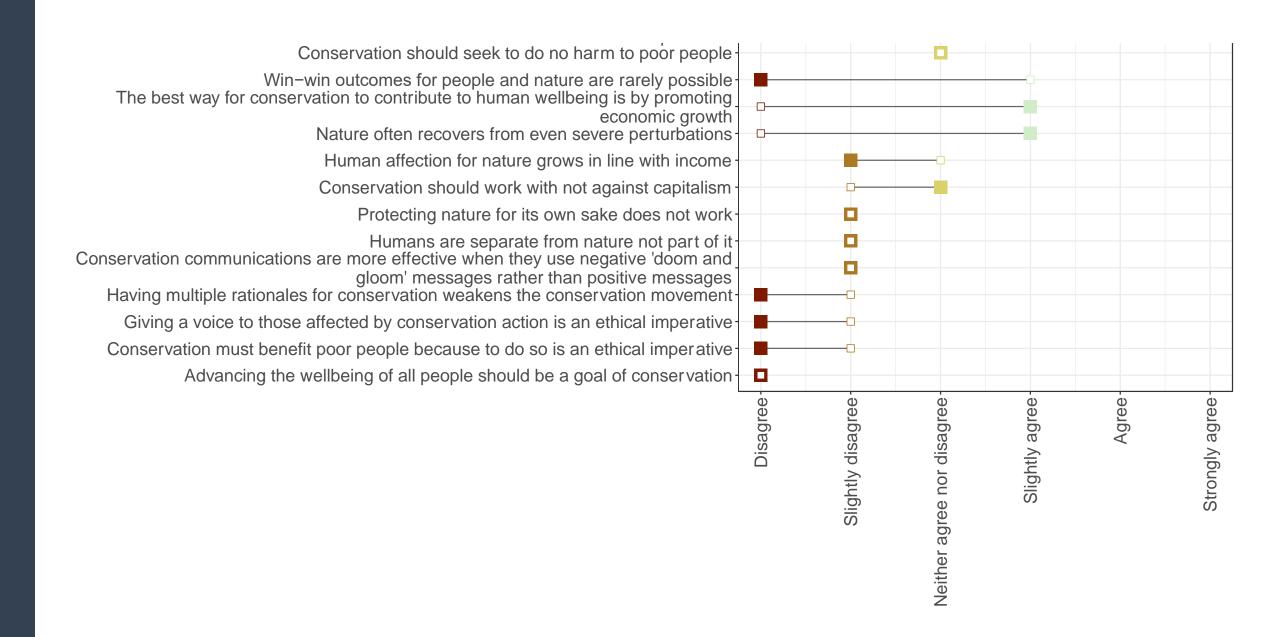
Fitting linear mixed effect models

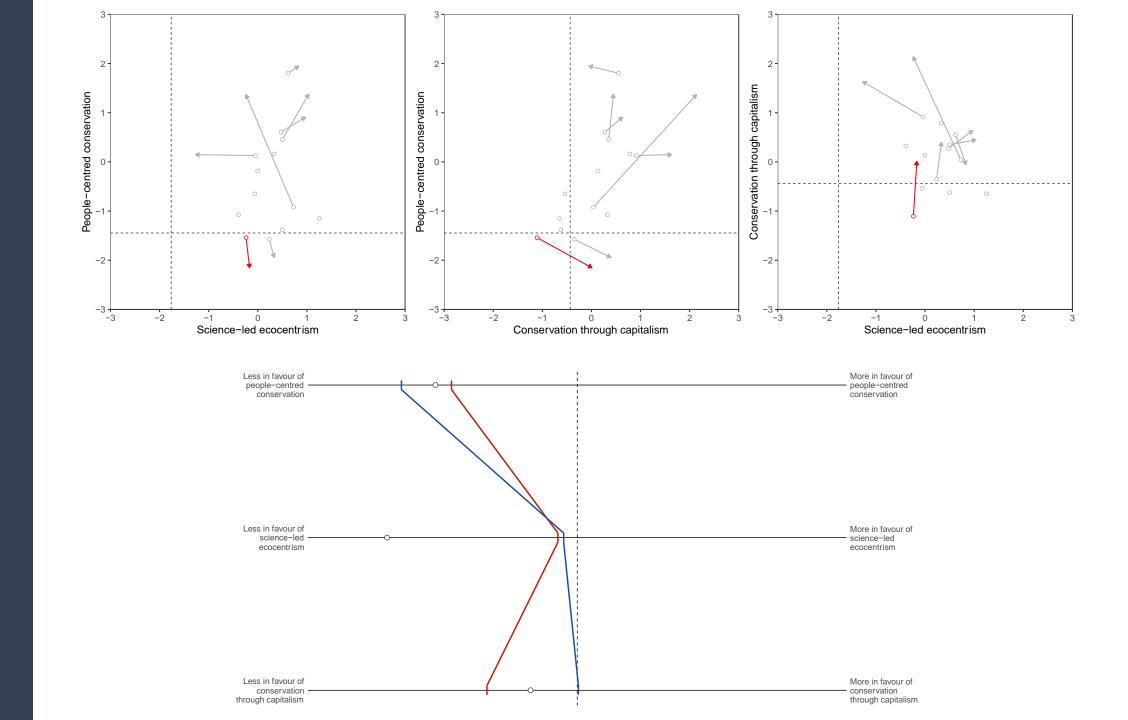
+

Coding factors perceived as having an important influence on their conservation thinking

Conservation through capitalism







As a tool for individual reflection...

"I absolutely love to be able to see the difference. See that a lot of my answers didn't change and what did change. It was really interesting to then look back and see which question it was, and to understand how my views changed. That was really useful as a tool. I've looked at the results a couple of times because they're just really interesting."

"...it's really helpful to know.
Oh, my view has shifted a
little bit to towards this kind
of position. I would say it's
really helpful. I would love to
have like a regular
assessment to myself, like
maybe every year, like if I
tend to work in conservation
organizations after my
studies."

Going forward ...

Ch4: analysis of before -> after dimension scores and association student/education characteristics

- Aspects students perceive as playing an important role in influencing their conservation thinking
- Tools and approaches to elicit open and honest discussion about different values and frames of reference
- Reflection as a crucial aspect of transformative learning

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The Restoration Partnership Development toolkit: using tools from social sciences to build partnerships for landscape restoration

Edinburgh Forests and Landscapes Network, 6th December 2023

Dr Annette Green

'Cumbria Connect' Cumbria case study

'Wilder Marches' (Welsh borders) case study

Affric/Kintail Highlands case study

Highlands deer management debates (with Callum Leavey-Wilson)

Empirical data and lessons from case studies inform...

Toolkit for mapping and deliberating restoration project stakeholder perspectives



 A lot of different stakeholders with a lot of different perspectives! We have developed a social science based toolkit for eliciting and deliberating stakeholder perspectives on land management We believe that improving everyone's understanding of the diversity of views at stake will make restoration projects better and Restoratio fairer

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RPD toolkit: underlying rationale

Why do we think that exploring and understanding stakeholder perspectives can make restoration projects better and fairer?

Conflict in conservation often stems from unmet psychological or emotional needs

"Conservation conflicts often serve as proxies for conflicts over more fundamental, non-material social and psychological unmet needs—including status and recognition, dignity and respect, empowerment, freedom, voice and control [...]—which are not addressed by [...] technical fixes or approaches."

Madden and McQuinn (2014), Conservation's Blind Spot: The Case for Conflict Transformation in Wildlife Conservation

Restoration Partnership Development: social science tools for building landscape restoration partnerships



RPD toolkit: underlying rationale

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Survey for perspective elicitation PLUS workshop for perspective deliberation:

- Address psychological and emotional needs to be heard, seen, recognised
- Encourage consideration of others' perspectives (enhance mutual understanding)
- Foster a sense of openness and curiosity between stakeholders (build trust)

Restoration Partnership Development Restoration Partnership Development Restoration Project social science tools for building landscape restoration partnerships



RPD toolkit: Cumbria case study

Case study: Cumbria Connect

- ELSP Restoration Landscape project
- Eastern Cumbria
- RSPB (project lead), Natural England, United Utilities and Lowther Estate
- Restoration of 33,000 ha English upland landscape
- Farmers as a major stakeholder group







LEE SCHOFIELD

The Lake District's world heritage site status is a betrayal of the living world *George Monbiot*

The designation protects sheep farming, and nothing else. This blatant assault on nature turns the area into a Beatrix Potter-themed museum

As a shepherd, I know we have not 'sheepwrecked' Britain's landscape Andrea Meanwell

Environmentalists are wrong to say that excess sheep are ruining the Lake District. Generations of families like mine have worked to maintain a delicate ecosystem

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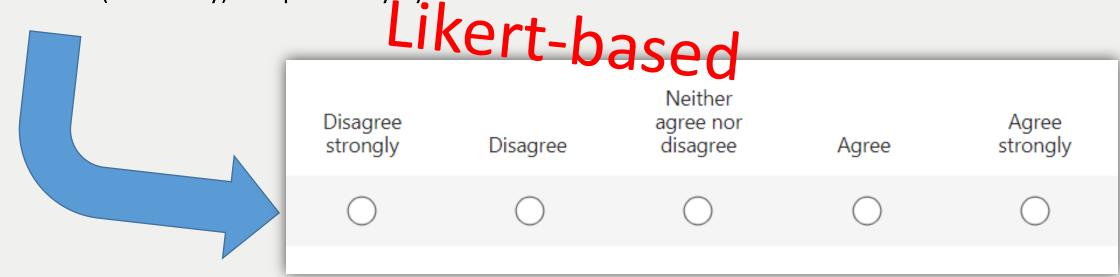


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Survey requirements:

- ✓ Needs to generate data that would help foster productive conversations in stakeholder workshops
- ✓ Short
- ✓ Online
- ✓ Simple format

✓ Useable (eventually) independently by non social scientists





Generating statements for the Likert-based survey

Primary data from interviews

Secondary data from lit review

Reimagining the Lake Dist

Reimagining the Lake Dist

Attros://theecologist.org/2020/jul/21/reimagining-lake-district



The Lake District's world heritage site status is a betrayal of the living world George Monbiot



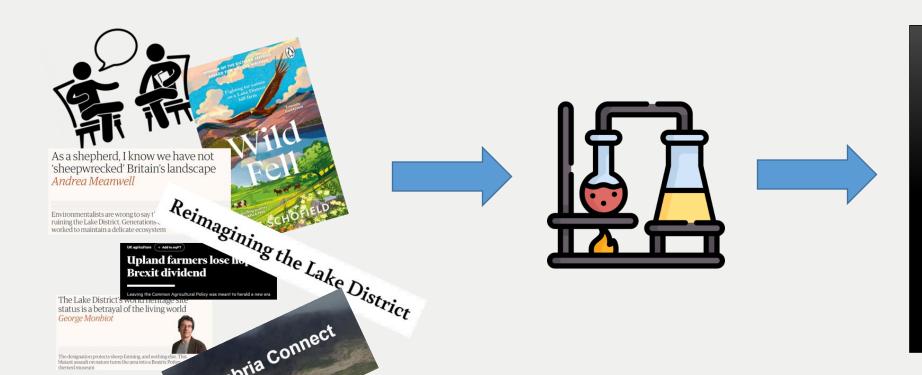
URGH

Elms: England greener farming payments detail unveiled

https://www.bbc.co.uk/news/science-environment-64399799

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Generating statements for the Likert-based survey



30 statements
about the most
salient issues in
restoration and
land management
in the Cumbria
Connect landscape

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Example statement from Likert-based survey

2. I would like to see more diverse tree species in this landscape *

Disagree strongly Disagree disagree Agree strongly

Agree strongly

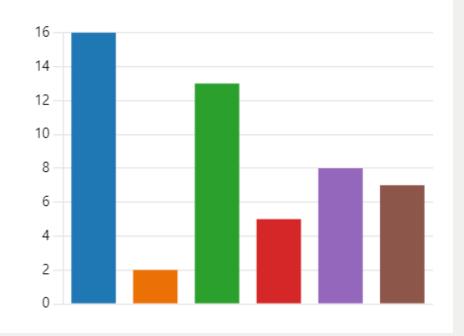


RPD toolkit: results from the Cumbria survey

Respondents (n=49) and their professional backgrounds

34. From the following options, please choose the ONE which best describes the sector in which you work





Sampling

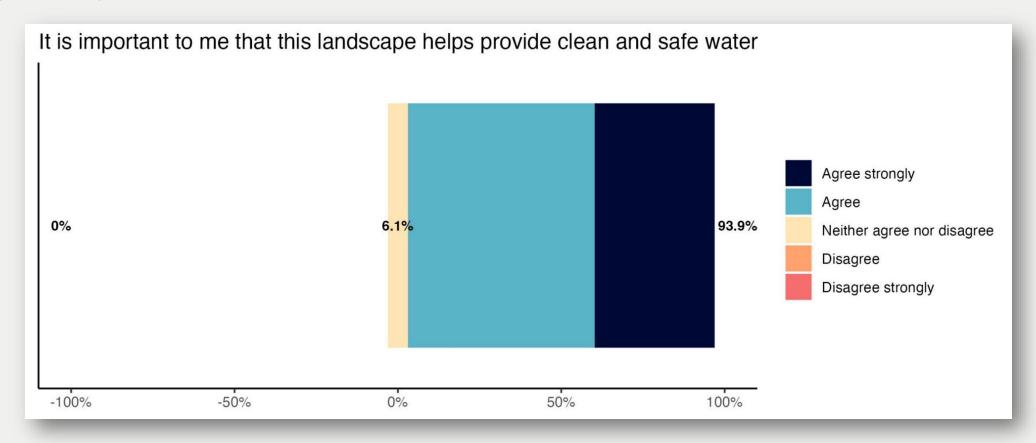
- Highly targeted
- Included people from constituent organisations of Cumbria Connect AND wider stakeholders
- NOT a representative sample





RPD toolkit: results from Cumbria survey

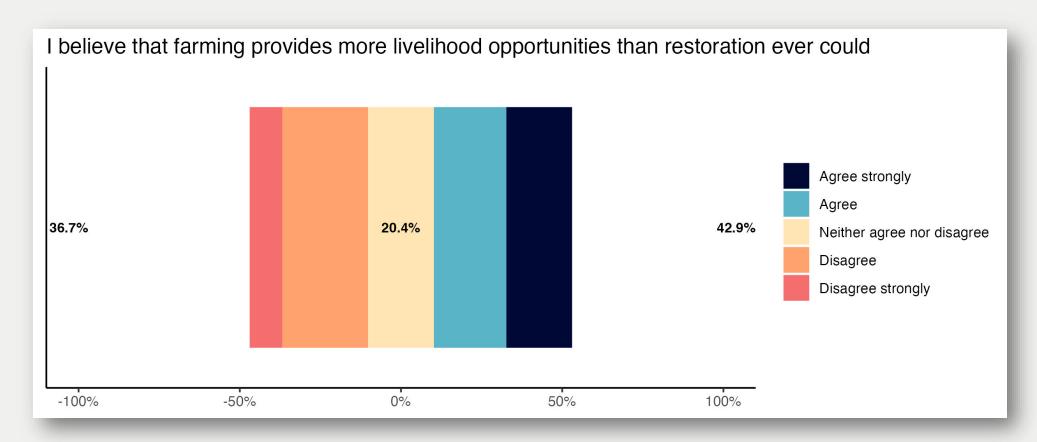
Example survey result from one statement





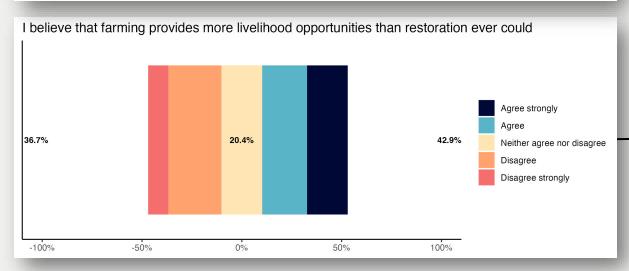
RPD toolkit: results from Cumbria survey

Example survey result from one statement



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It is important to me that this landscape helps provide clean and safe water Agree strongly Agree Neither agree nor disagree Dis



Consensus index score

(between 0 and 1) Tastle and Wierman 2007

0.798



0.485



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RPD toolkit: deliberative workshops

1st and 2nd August 2023, evening sessions, Bampton Memorial Hall

- Attendees from Cumbria Connect constituent organisations AND wider stakeholders (farming, restoration, heritage, estates)
- > Independent facilitator
- > Small group activities based on survey results
 - Emphasis that we were inviting participants to help us understand survey results





RPD toolkit: deliberative works ops

- Small group activit
 hased on sur
- Which results were as existing?
- Consensus statem
 - How can we this is.
- Divisive stateme.
 - What chall

Get participants to think from someone else's perspective and reflect on their own







RPD toolkit: deliberative workshops

Final workshop activity (plenary discussion)

If we are to work better, together, to benefit everyone who cares about this place, what areas should we focus on?





RPD toolkit: evaluation

Feedback from workshop participants:

- √ "opportunity to unpack controversial issues"
- √ "get under the skin...about what [others']
 concerns, issues, worries are"
- √ "opportunity to get my views out there"
- ✓ "helps to understand the way we obviously see things completely differently at times"
- √"non-confrontational"

"fundamental, non-material social and psychological unmet needs—including status and recognition, dignity and respect, empowerment, freedom, voice and control"

Madden and McQuinn (2014),

Conservation's Blind Spot: The
Case for Conflict Transformation in Wildlife Conservation

RPD toolkit: using the toolkit

Where **respondents** Where the user Where the **user** can then (the project (practitioner, project see the survey results stakeholders) can do leader) builds their the survey own bespoke statement-based survey App1 App 2 App 3 **Restoration Partnership Development:** THE UNIVERSITY of EDINBURGH social science tools for building landscape restoration partnerships

RPD toolkit: using the toolkit

Where the user then User can choose from pre-determined (th (practitioner, project lts banks of statements, categorised by leader) builds their sta context/project type the own bespoke Possibility to create own statements (?) statement-based survey App 2 App1 App 3 Self-guided training materials will be available

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Thank you







Thank you











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