

What type of knowledge is transferred across transdisciplinary case studies? Preliminary results from a study on transferability in transdisciplinary research

Other Conference Item

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What type of knowledge is transferred across transdisciplinary case studies?

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Outline

- 1. Conceptual background and rationale
 - a) What we don't mean by 'transferability'
 - b) Why considerations for transferability in TD research matter?
- 2. TACIT project: its design, preliminary results/insights, and next steps
- 3. Summary







1. Conceptual background and rationale

a) What we don't mean by transferability





"If TD researchers want to build on other TD projects' results, they need to know under what conditions knowledge produced in one case can be transferred to and applied in another case...

...a profound understanding and management of the challenges related to **knowledge transfer across cases** are missing"

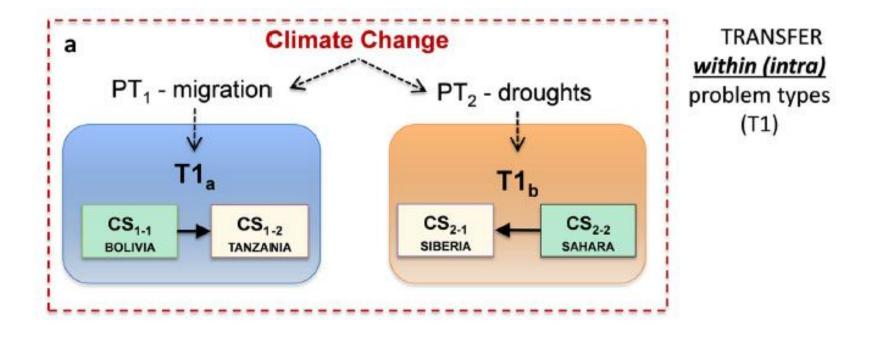
(Adler et al. 2017)

So, what we don't mean by transferability is the transfer of knowledge:

- Between (or from) researchers and (to) stakeholders; or
- At the science-policy interface, between (or from) science and (to) policy (e.g. 'speaking truth to power')



Adler, C., Hirsch Hadorn, G., Breu, T., Wiesmann, U., Pohl, C. (2017). Conceptualizing the transfer of knowledge across cases in transdisciplinary research. *Sustainability Science*.



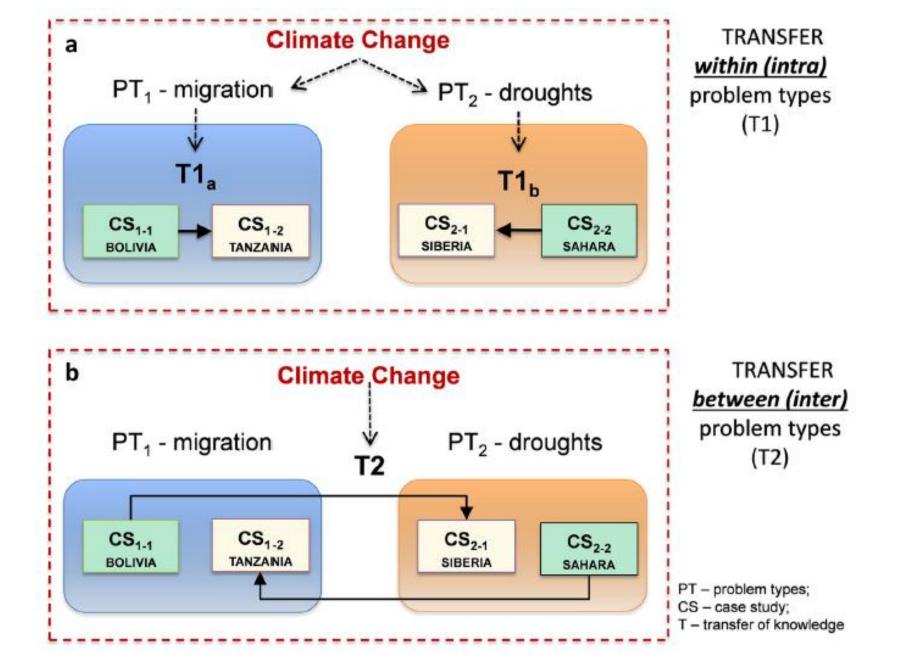


Figure 1 from Adler, C., Hirsch Hadorn, G., Breu, T., Wiesmann, U., Pohl, C. (2017). Conceptualizing the transfer of knowledge across cases in transdisciplinary research. *Sustainability Science*.



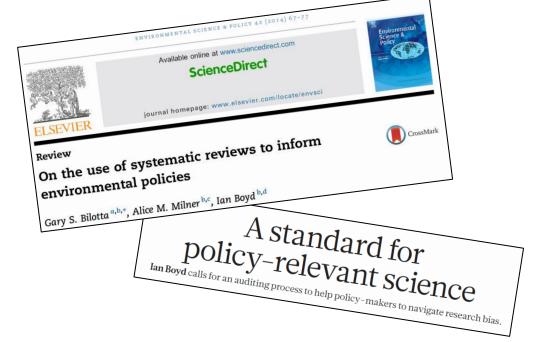
1. Conceptual background and rationale

b) Why considerations for transferability in TD research matter?

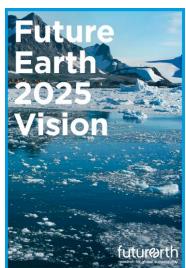


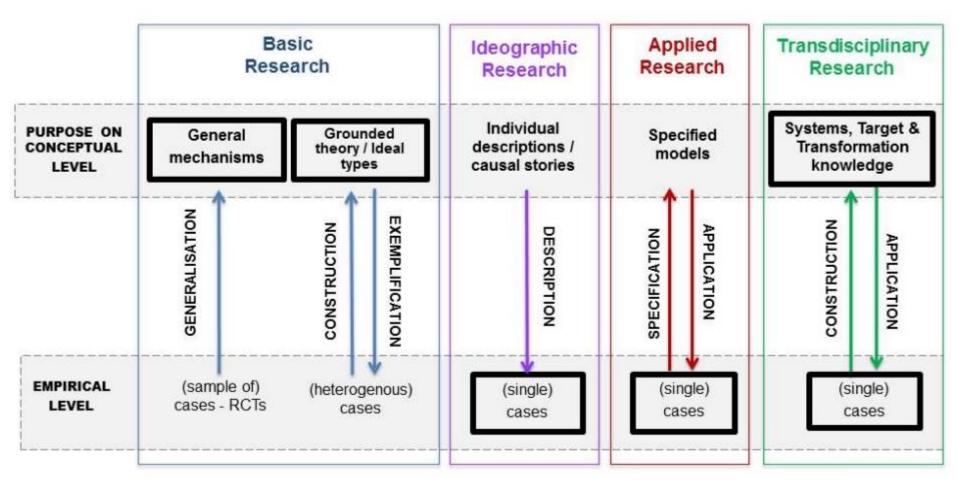


Calls for auditability of quality in TD research, and perception of inconsistent evidence when multiple and diverse case studies are used to justify for a policy for a given problem-type, give reasons for concern and interest on the topic;



- Calls for TD research in programs and research agendas that address global change issues in society (e.g. Future Earth Vision 2025 "... Central to achieving the vision is a commitment to co-design and coproduce knowledge in collaboration with societal partners" ...
 - So, what can we learn from, assess or scale from and across TD case studies, that we are (increasingly) advocating for?





- "...The relations between the empirical and the conceptual level determine what can be learned from cases, and requirements for transferability";
- Models of 'what works', based on TD case study research [in context], should be used to identify the conditions that speak for or against the effectiveness of [coproduced] knowledge for policy, if it is to be transferred to another case.

| Concept | Research community / field of research | Example of illustrative quote and reference |
|---|---|--|
| Indicators for diffusion of innovations | Policy Sciences | "if a strategy is to be clearly formulated and adequately appraised, the choice of evaluative criteria is critical. These criteria call for specific indicators to supplement information obtained from case studies and experienced judgement" (Lasswell 1971, p.173) |
| Scalability | (Community- based) climate change adaptation | "A successful community based adaptation (CBA) initiative is of value to the community involved, but can have little wider impact. If these isolated examples are considered CBA pilots, then how to learn from and scale out the pilot is the necessary next phase" (Gogoi et al. 2014, p.368) |
| Ideal-types for portability | Philosophy of Science | "if we see social mechanisms as ideal-type patterns of action and interaction, they can be used for making empirical findings obtained in one context portable to other contexts" (Bengtsson and Hertting 2014, p.709) |
| C-M-O configuration | Philosophy of Science; Realist Evaluation | "Causal [transferable] connections are established via ' c ontext, m echanism, outcome' configurations all three elements must be considered in order to address the master question 'what works?' 'for whom' [and] 'in what circumstances?' " (Pawson 2006, p.25) |
| INUS conditions | Philosophy of Science | "to move from 'it worked somewhere' to 'it will work here' you will have to worry about support factors [] an INUS condition is an Insufficient but Necessary part of an Unnecessary but Sufficient condition for getting a contribution to the effect you want" (Cartwright and Hardie 2012, p.63) |



2. TACIT project: its design

What counts for transferability of knowledge across cases in transdisciplinary research?

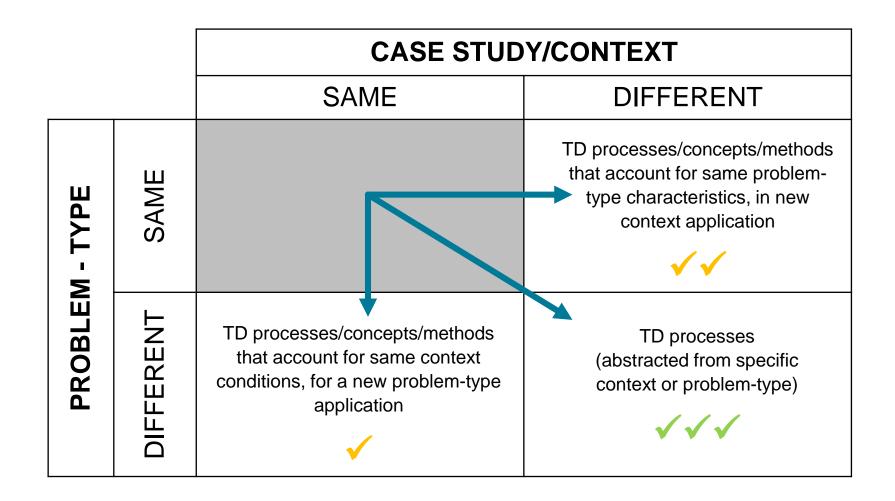
Transferability Across Cases In Transdisciplinary research (2016-2018)





- Interdisciplinary collaboration: philosopher of science, (physical and human) geographers and environmental and sustainability scientists, all with knowledge of and experience with transdisciplinary research;
- Objective: take initial empirical steps on conceptual 'problematique' of transferability across cases in TD research, by asking three research questions (and methods):
 - 1. <u>Knowledge</u> What do knowledge producers transfer across cases, if at all? (qualitative analysis of interviews, literature and other secondary sources of data).
 - 2. <u>Considerations</u> What considerations do knowledge producers apply when transferring knowledge across cases? (qualitative analysis of interviews, literature and other secondary sources of data).
 - 3. <u>Ideal-types</u> Collectively, what typical considerations or for transfer of knowledge across cases exist in TD research? (qualitative analysis of interviews, wshops, and Q-methodology).

- So far...
 - Sample of 12 TD projects on diverse topics of global change and sustainability, with Swiss-based Pls/academics and their non-academic project partners (both in Switzerland and abroad);
 - Total of 30 interviews (face-to-face and telephone/Skype),
 with a couple more still to be completed;
 - About half to 2/3s of the way through analyses of transcribed interviews to answer the first and second research questions, but for purposes of this talk focus is on first:
 - 1. What do knowledge producers transfer across cases, if at all?



CONTEXT

TD processes/concepts that account for same context conditions, for a new problem-type application

TD processes/concepts that account for same problem-type characteristics, in a new context application

TD processes/concepts abstracted from specific context or problem-type

ABSTRACT

3. Summary...

- By 'transfer of knowledge' we mean applying substantive knowledge derived in one context (case) to another case or type of problem. By 'transferability' we assert whether such a transfer is appropriate – itself a normative methodological consideration;
- 2) If solutions to societal problems are sought from transdisciplinary case studies, then focusing on conditions and mechanisms for success (what works in one case, and not just on 'outcome' alone) constitutes a basis for transferring knowledge to another case.

3) In TACIT (so far), transferability seems 'enabled' when a certain degree of abstraction from the context or problem is possible, with analogies for 'relevant and not too dissimilar' traits or factors to support justification for transfer.

Thank you!

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