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CENTRE FOR DEVELOPMENT AND ENVIRONMENT 14th IST Conference 2023 Responsibility and reflexivity in transitions

How researchers can empower actors in sustainability transitions – insights from a transition management process towards climate

neutrality in the Swiss Alps





### What we did

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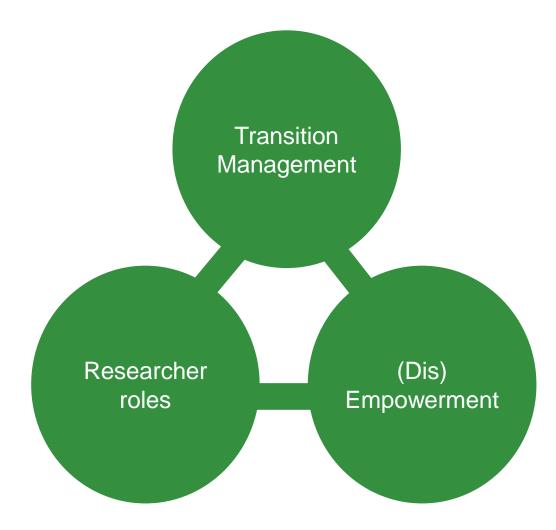
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# How to design an empowering transdisciplinary transition processes?



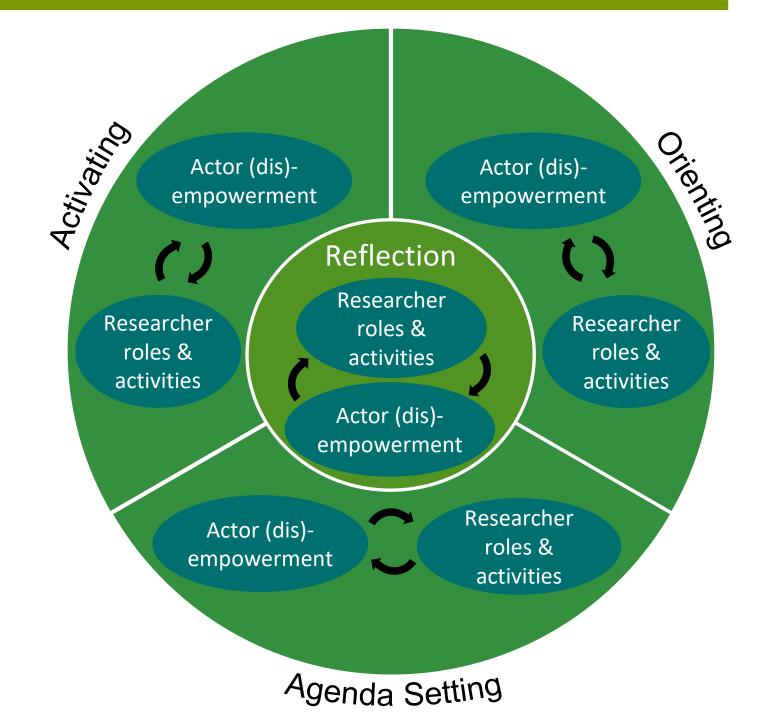


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## Framework

#### Framework based on:

- Transition management (Roorda et al., 2014; Frantzeskaki et al., 2018)
- Roles of researchers (Bulten et al., 2021; Huning et al., 2021; Wittmayer & Schäpke, 2014)
- (dis)empowerment (Avelino, 2017)

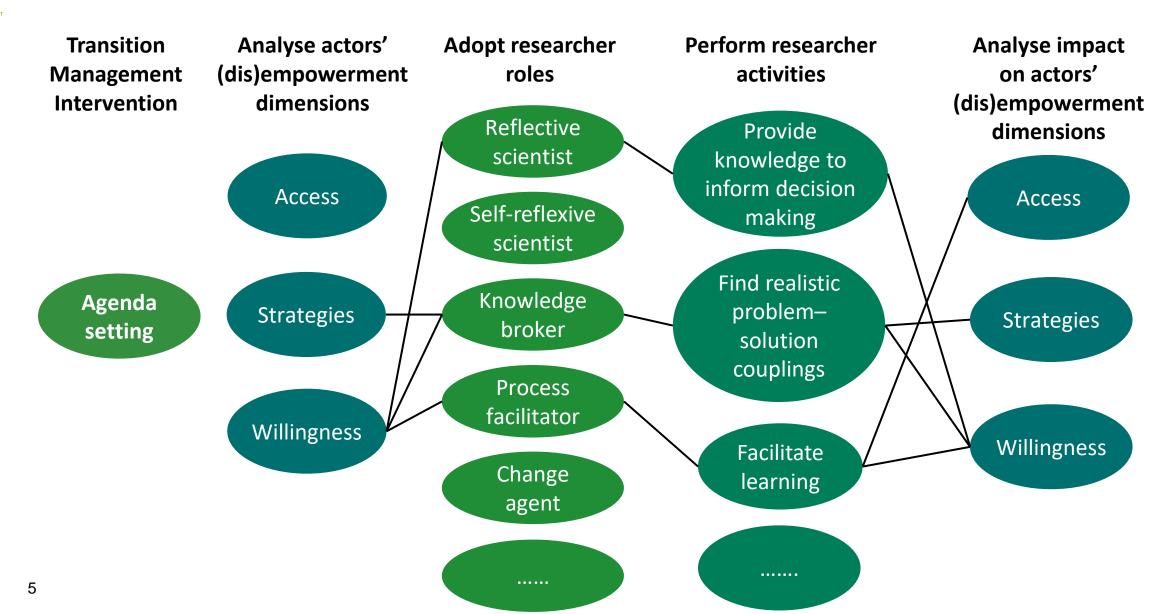




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### Framework





## Best practices card deck

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## Best practices card deck



Transition Management Intervention	Analyse actors' (dis)empowerment dimensions	Adopt researcher roles	Perform researcher activities	Analyse impact on actors' (dis)empowerment dimensions
Agenda Setting	Strategies Uncertainty on where to start?	Knowledge broker	Develop a 'best- practice' card deck  to provide practical examples	The best practice examples supported project development
	Willingness Feeling of being alone/a minority regarding climate concern	Knowledge broker	Develop a 'best- practice' card deck • include examples from within case- study region)	Local actors became aware of other climate initiatives in their region



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## Provide knowledge to inform decision making

Transition Management Intervention	Analyse actors' (dis)empowerment dimensions	Adopt researcher roles	Perform researcher activities	Analyse impact on actors' (dis)empowerment dimensions
Agenda Setting	<ul> <li>Willingness</li> <li>Uncertainty on the impact of project ideas</li> <li>Uncertainty on public opinion</li> </ul>	Reflective scientist	Provide knowledge to inform decision making	Actors found the information very relevant, but also expressed uncertainty how to use this knowledge during project development



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## Provide knowledge to inform decision making

Transition Management Intervention	Analyse actors' (dis)empowerment dimensions	Adopt researcher roles	Perform researcher activities	Analyse impact on actors' (dis)empowerment dimensions
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**Sector** 

### Housing

**Visions** 

Priorities based on assessment

#### **Heating systems**

Fossil-fueled heating systems are replaced with systems based on regional renewable energy. The required energy is produced by the building's own facilities as much as possible.

k

GHG Reduct.

Synergies

Residents

#### Skilled workforce

Local architecture and planning offices, building owners, construction companies, licensing authorities and other relevant actors in the construction sector have well-trained specialists at their disposal who provide homeowners with up-to-date, correct and comprehensible information regarding home renovations.

GHG Reduct. Indirect

Synergies

Residents



# Thank you!

#### **Project website:**

https://www.cde.unibe.ch/research/projects/local\_energy\_transit\_ion\_experiments\_for\_a\_low\_carbon\_society/index\_eng.html





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## References

Avelino, F. (2017). Power in Sustainability Transitions: Analysing power and (dis)empowerment in transformative change towards sustainability. *Environmental Policy and Governance*, 27(6), 505–520. <a href="https://doi.org/10.1002/eet.1777">https://doi.org/10.1002/eet.1777</a>

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Huning, S., Räuchle, C., & Fuchs, M. (2021). Designing real-world laboratories for sustainable urban transformation: Addressing ambiguous roles and expectations in transdisciplinary teams. Sustainability Science, 16(5), 1595–1607. https://doi.org/10.1007/s11625-021-00985-0

Roorda, C., Wittmayer, J., Hennemann, P., Van Steenbergen, F., Frantzeskaki, N., & Loorbach, D. (2014). *Transition management in the urban context: Guidance manual.* RIFT, Erasmus University Rot-terdam, Rotterdam. https://drift.eur.nl/app/uploads/2016/11/DRIFT-Transition\_management\_in\_the\_urban\_context-guidance\_manual.pdf

Wittmayer, J. M., & Schäpke, N. (2014). Action, research and participation: Roles of researchers in sustainability transitions. Sustainability Science, 9(4), 483–496. https://doi.org/10/f6n3h2

<u>Images:</u>



**Appendix** 

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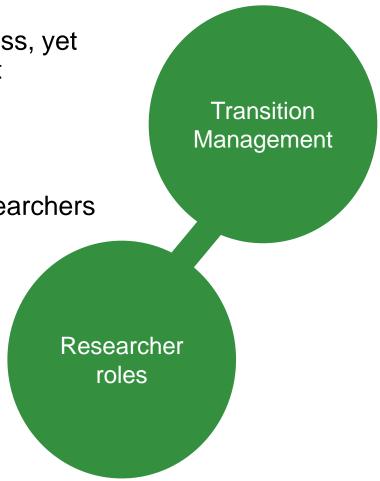
# How to design an empowering transdisciplinary transition process?

#### Transition management

 Could be described as an empowerment process, yet focus on power/empowerment is rather indirect (Hölscher et al., 2019)

#### Researcher roles

- Lots of literature on the <u>roles</u> and <u>activities</u> researchers can adopt (Bulten et al., 2021; Huning et al., 2021; Wittmayer & Schäpke, 2014). Yet, little attention on how well researchers <u>perform</u> these roles.
- What actually makes a good or bad 'reflective scientist', or 'process facilitator'?





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# How to design an empowering transdisciplinary transition processes?

#### Transition management

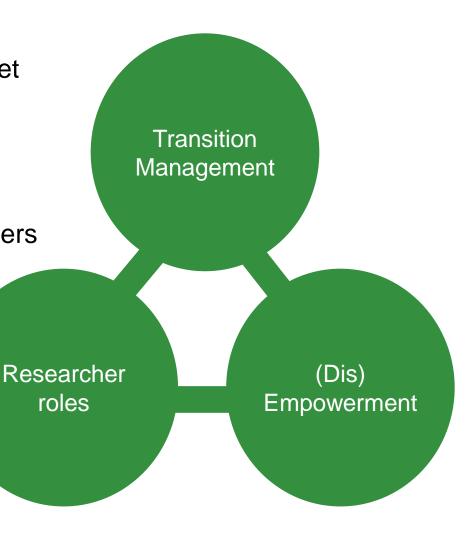
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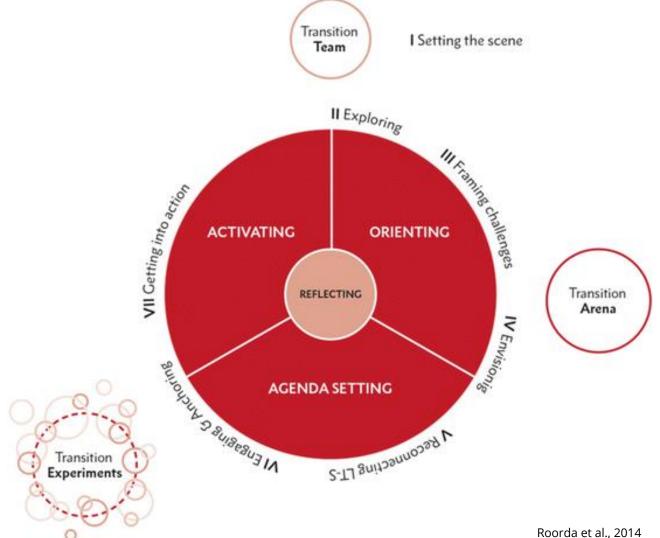
To enhance the impact and reflexivity of the transition process we added insights on (dis)empowerment (Avelino, 2017).





## Theoretical background

**Transition Management** 





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# Theoretical background

## Roles and activities

Role	Activities
Reflective scientist	Performs traditional research activities i.e., observing, analysing and interpreting data.
Reflexive scientist	Reflects on positionality, power dynamics and normativity.
Knowledge broker	Aims to mediates and synthesize different perspectives and provide tangible and context-specific knowledge.
Process facilitator	Initiates the process, invites participants. Creates a collaborative and supportive space for co-design and co-learning.
Change agent	Actively participates in processes aiming to implement interventions.





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# Theoretical background

(dis)empowerment

Dimension	
Access	Possibility of obtaining resources as well as the awareness that those resources exist.
Strategies	Methods used to exercise power i.e., lobbying, networking, experimenting, voting, or protesting.
Willingness	Intrinsic motivation, besides the wish to act, an actor should also believe they are able to act.

