

**University  
of Basel**

# In association with:

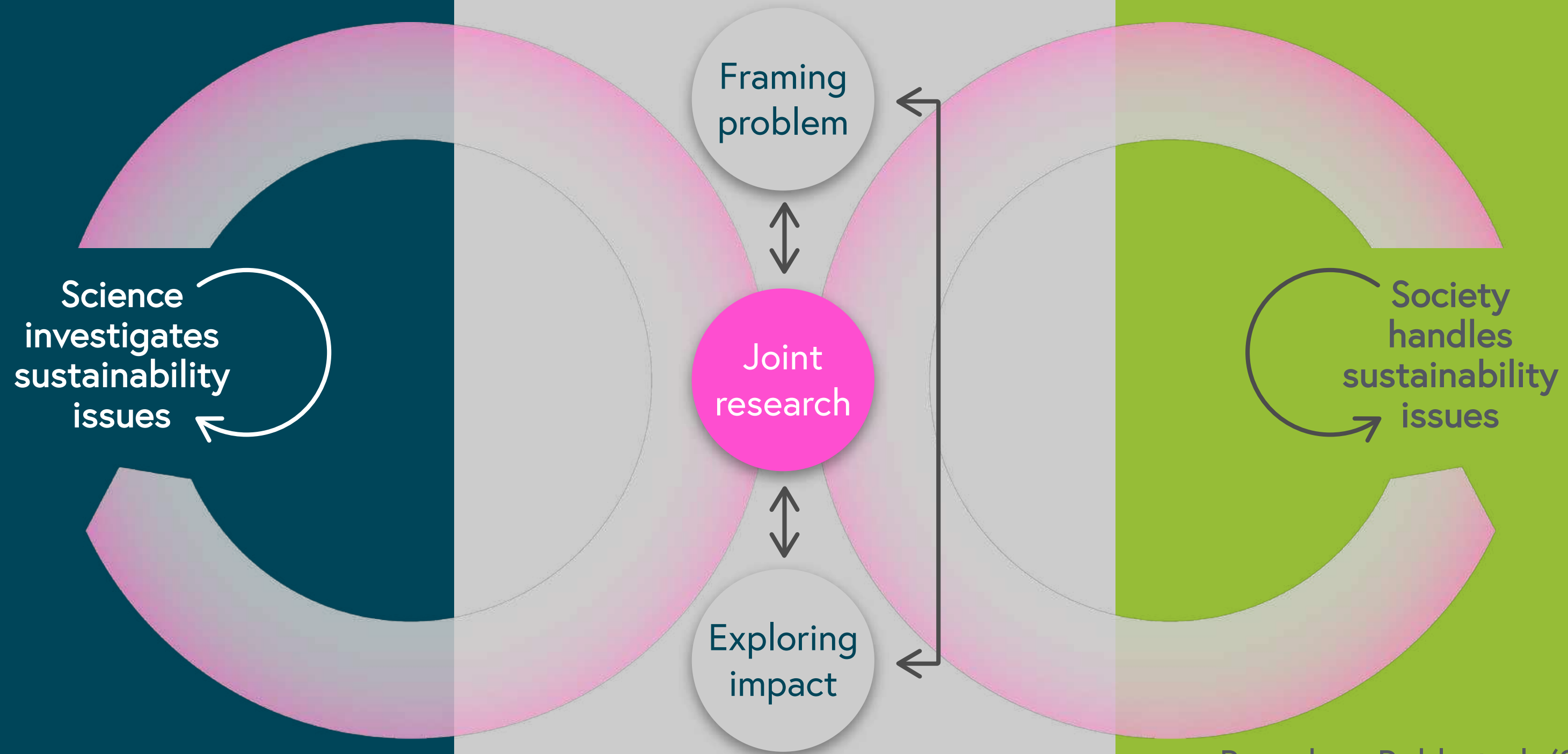


**Phase 2:**  
**jointly conduct research**

**Is it true?**  
Realm of science, rigor, and understanding

**Transdisciplinary Research**  
Functional-dynamic collaboration of disciplines and societal actors to investigate and handle sustainability issues

**Does it work?**  
Realm of practice, relevance, and design



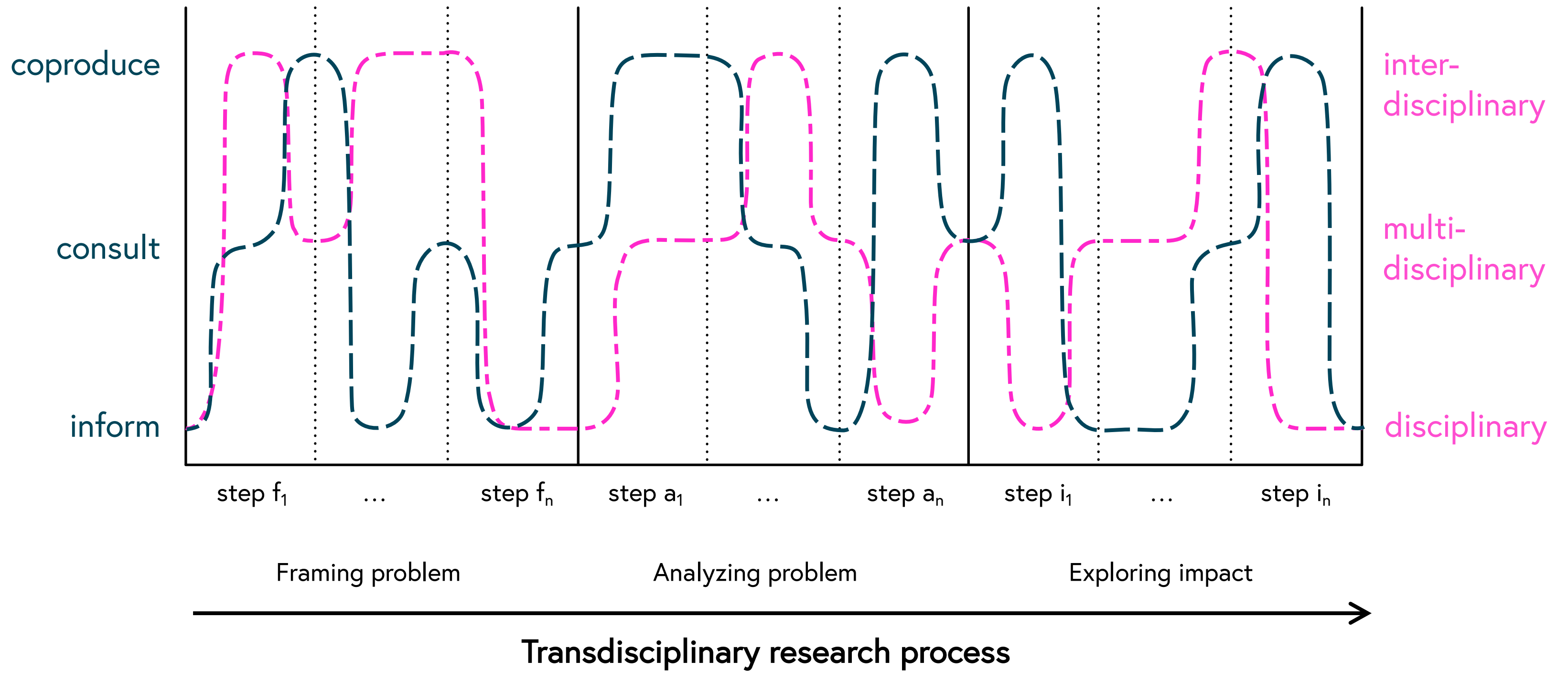
Based on Pohl et al. (2017)

# Tasks you might encounter in the second phase

- Jointly generate knowledge
- Bridging different knowledges and interest (sometimes called 'integration')

Intensity of involvement  
of societal actors

Intensity of collaboration  
between disciplines



Based on Stauffacher et al. (2008), Pohl et al. (2017)

# The key challenge is integration

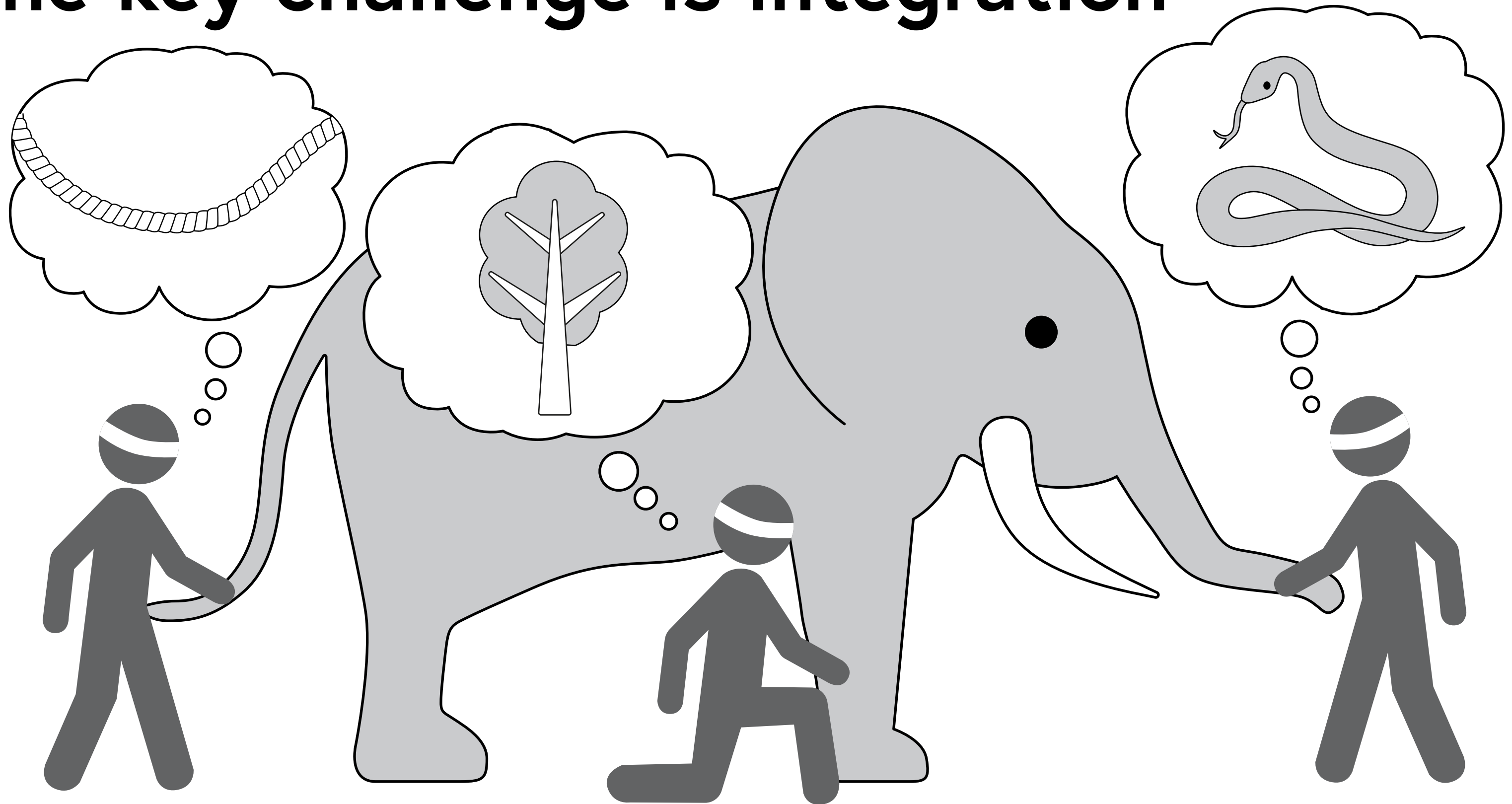
'[...] the cognitive operation that establishes a novel, hitherto non-existent connection between distinct entities of a given context.'

(Jahn et al. 2012)

'We treat integration as an input/output process, where a series of changes to the inputs results in a 'bringing together' or combination of inputs, producing an output.'

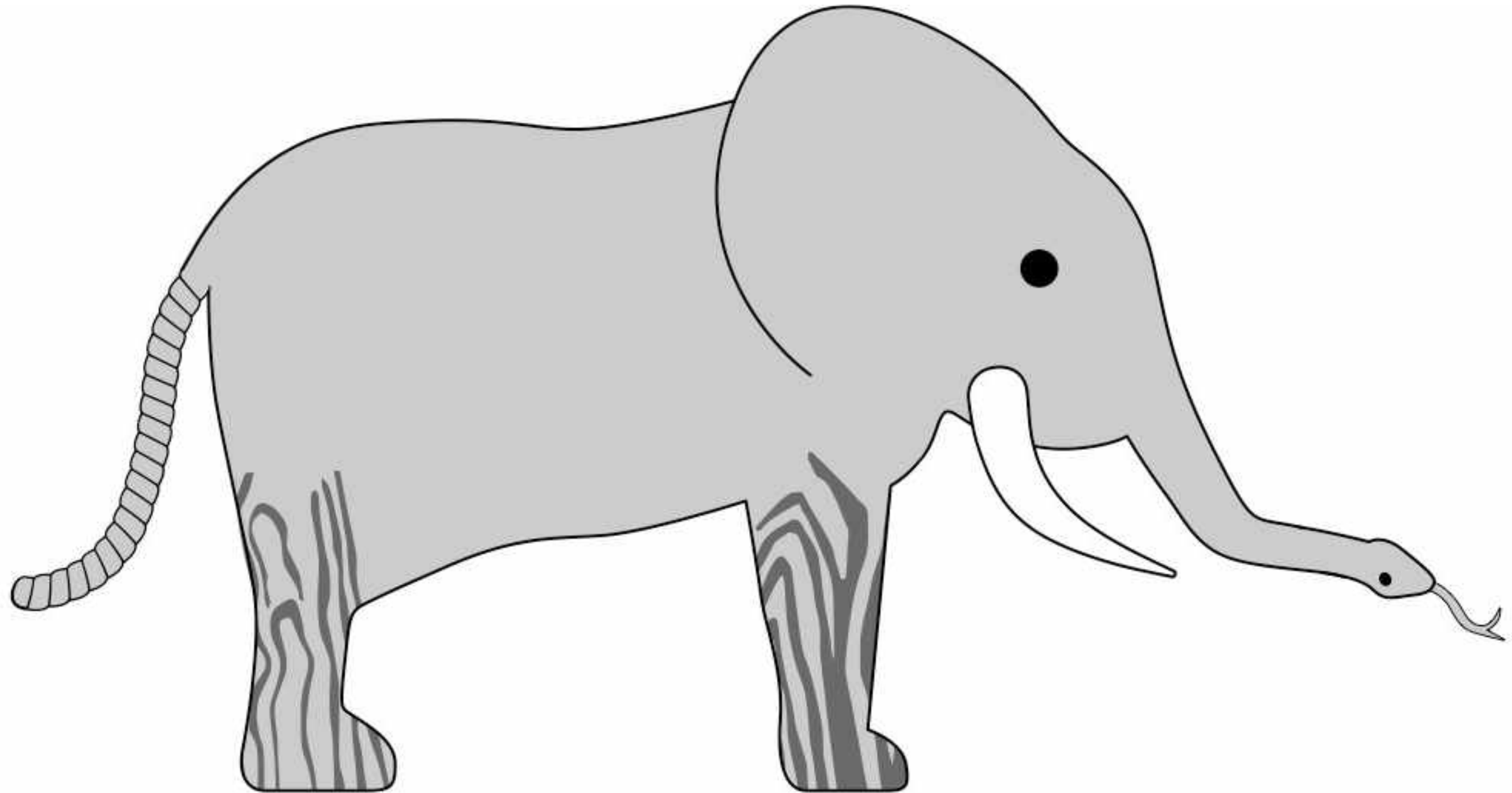
(O'Rourke et al. 2016)

# The key challenge is integration

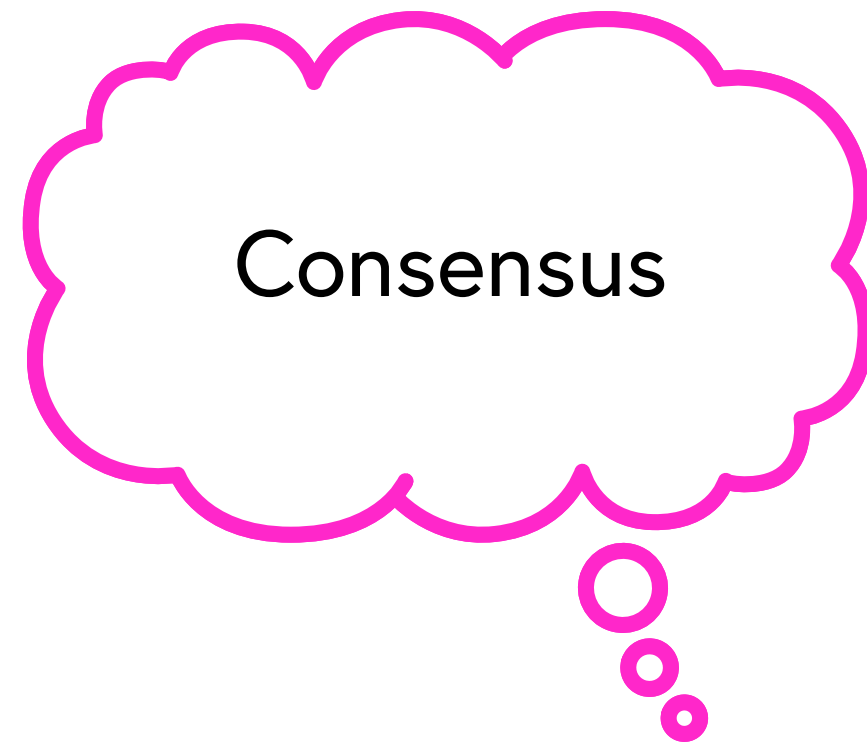




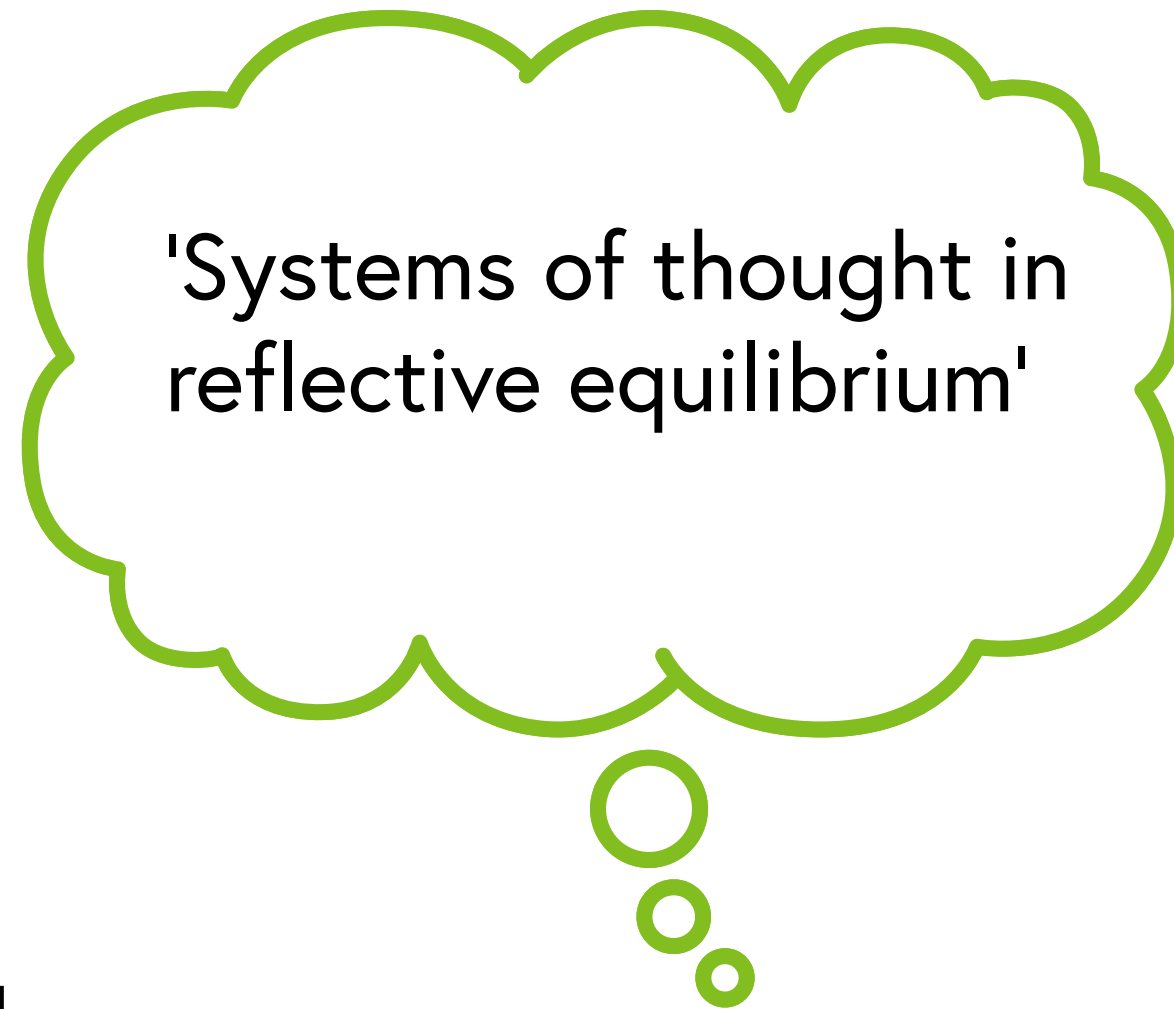
**The key challenge is integration**



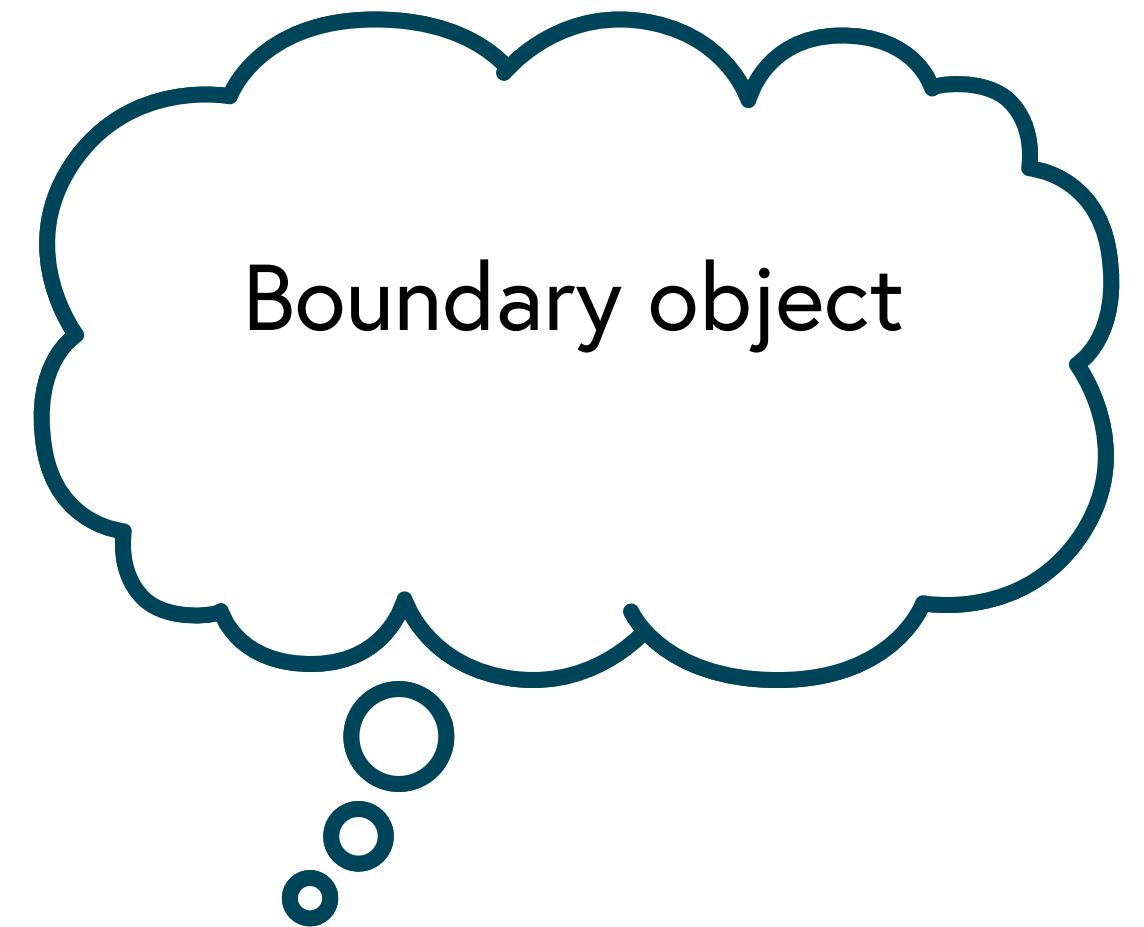
# There are different ideas how far integration should go



Shared understanding



Different perspectives in a constructive exchange  
(Boix-Mansilla 2010)



Shared interests  
(Star & Griesemer 1989)

# Tools supporting the joint research

- Give-and-take matrix: supports coordination among sub-projects, define input from / output for other sub-projects
- Nomadic concepts: explain key concept of the joint project, find perspectives to link

# At the end of second phase there is ideally

- Some answers to the open questions that were co-produced by the participants
- Clarity about how far consensus and dissent go
- Participants that had some interesting insights over the process

# References

- Boix Mansilla, V. (2010). Learning to synthesize. The development of interdisciplinary understanding. In R. Frodeman, J. Thompson Klein, & C. Mitcham (Eds.), *The Oxford Handbook of Interdisciplinarity* (S. 287-306). Oxford: Oxford University Press.
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# References

- Pohl, C., Krütli, P. & Stauffacher, M. (2017). Ten Reflective Steps for Rendering Research Societally Relevant. *GAIA*, 26(1), 43-51.
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