

Visualising effects of linking livestock production to area – A Bavarian dairy case study

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Objective

- Visualise multi-dimensional effects of sustainability measures
- Support quantitative data with qualitative data
- Include practical experience and relevance via expert knowledge

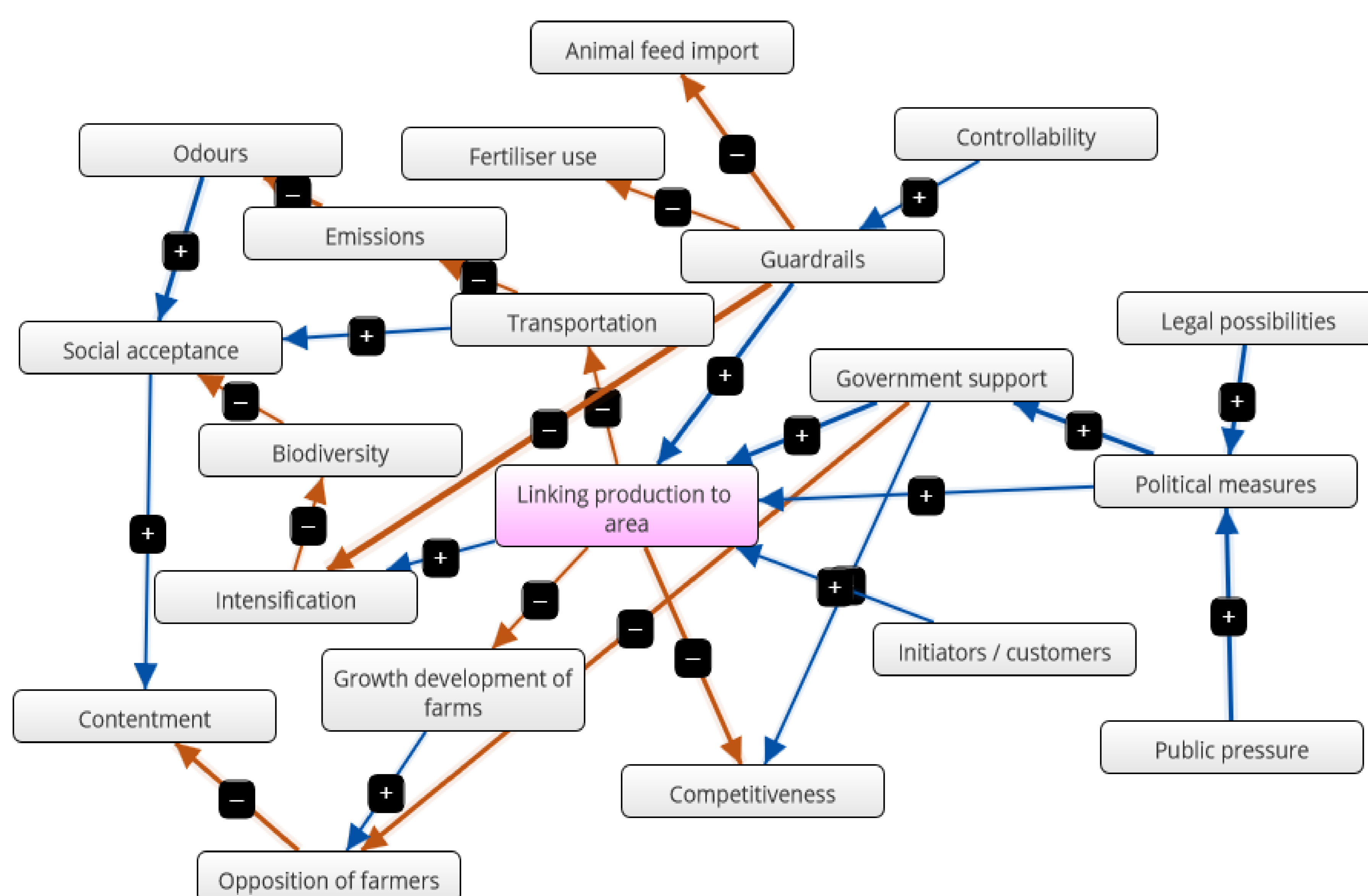
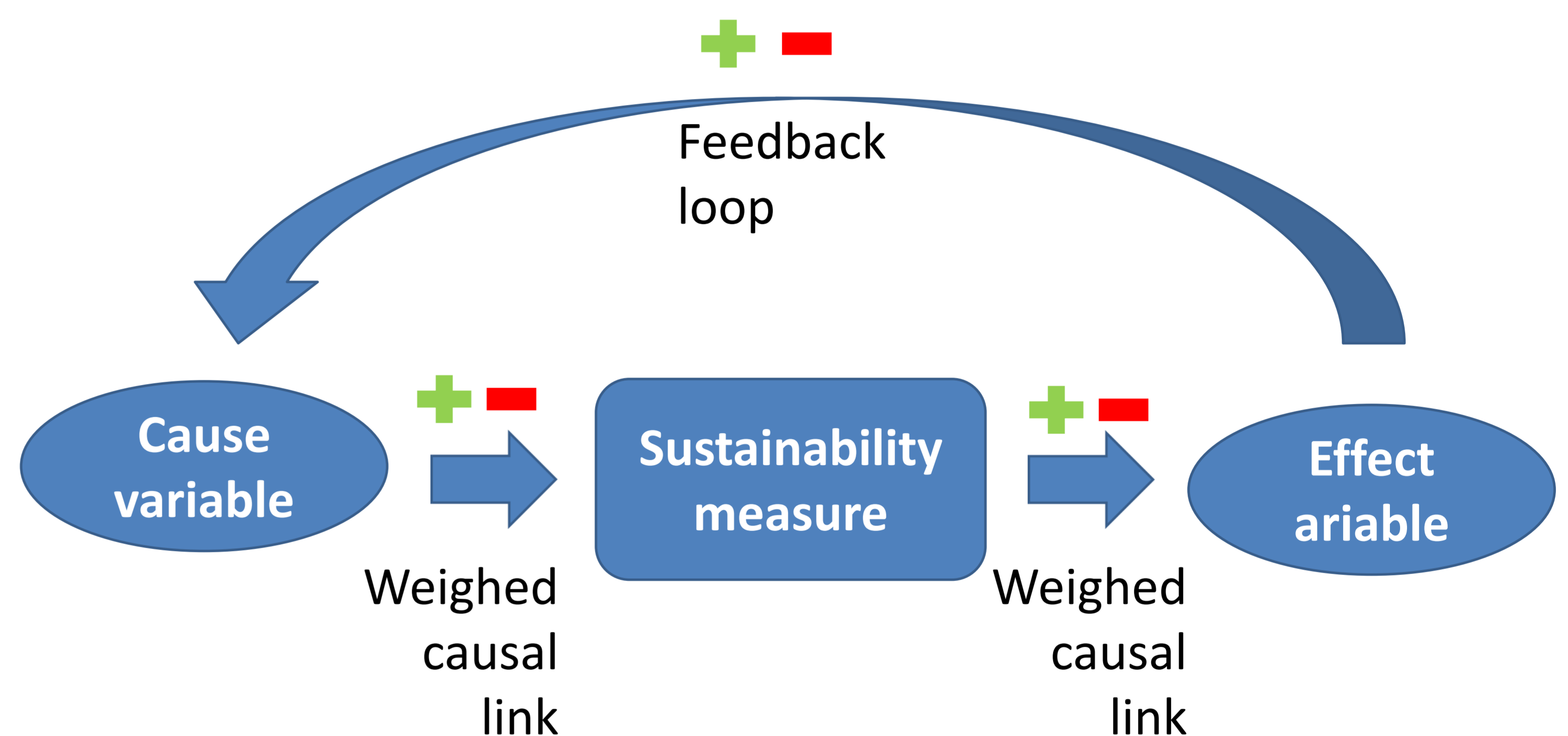
Conclusion

- Political framework needed as trigger and „safety net“
- Guardrails are crucial to prevent intensification
- Preliminary results need to be verified through additional interviews

Method

Vision and design method adapted from Halbe & Adamowski 2019¹

- 4-6 expert interviews
- Create individual mind maps
- Start variable: Sustainability measure
- Cause and effect variables added
- Weighed causal linkages added
- Individual mind maps are joined



Results

- Positive effects on public acceptance and ecologic aspects
- Negative effects on competitiveness and growth opportunities
- System responds with intensification

¹Halbe, J., Adamowski, J. 2019. Modeling sustainability visions: A case study of multi-scale food systems in Southwestern Ontario. Journal of Environment Management 231. 1028-1047.