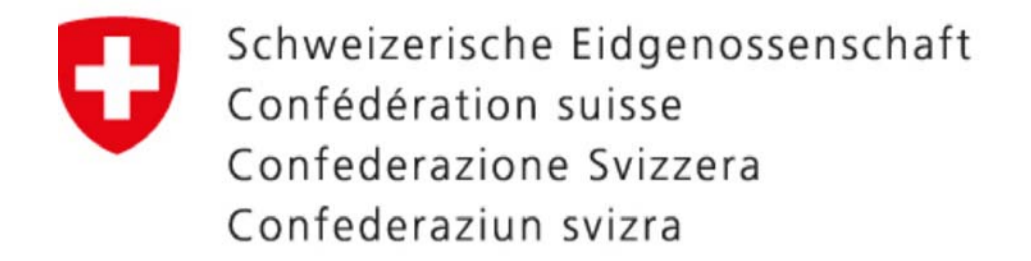


# Collective Action – A Pathway for Effective Climate Change Mitigation in Agriculture ?

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## 1 Introduction

- Agriculture is a major source of global greenhouse gas emissions
- Swiss Climate Strategy for Agriculture calls for effective reduction measures
- Mitigation can be facilitated by collaboration and collective action of farmers

### Literature Gap:

Behavioral aspects and collective forms of agricultural climate change mitigation



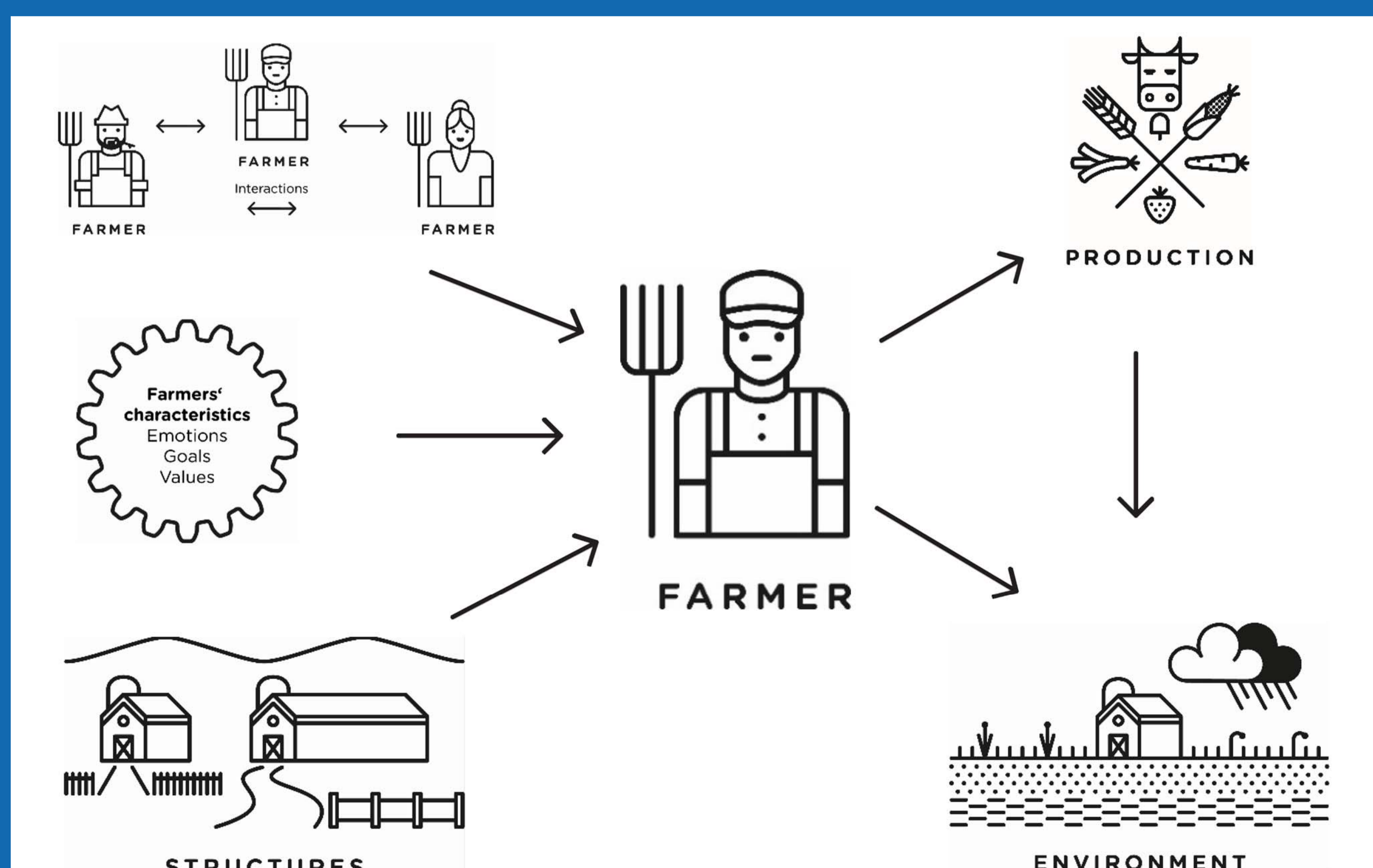
## 2 Research Questions

### Determinants of farmers' decision-making with respect to collective forms of climate change mitigation



1. How do farmers' social networks influence the decision to join collective climate change mitigation?
2. How do interactions, individual preferences and attitudes determine farmers' decision-making with respect to collective mitigation?
3. Is a whole-farm and collective approach an efficient way of climate change mitigation?

## 3 Conceptual Framework



## 4 Case Study AgroCO<sub>2</sub>ncept Flaachtal

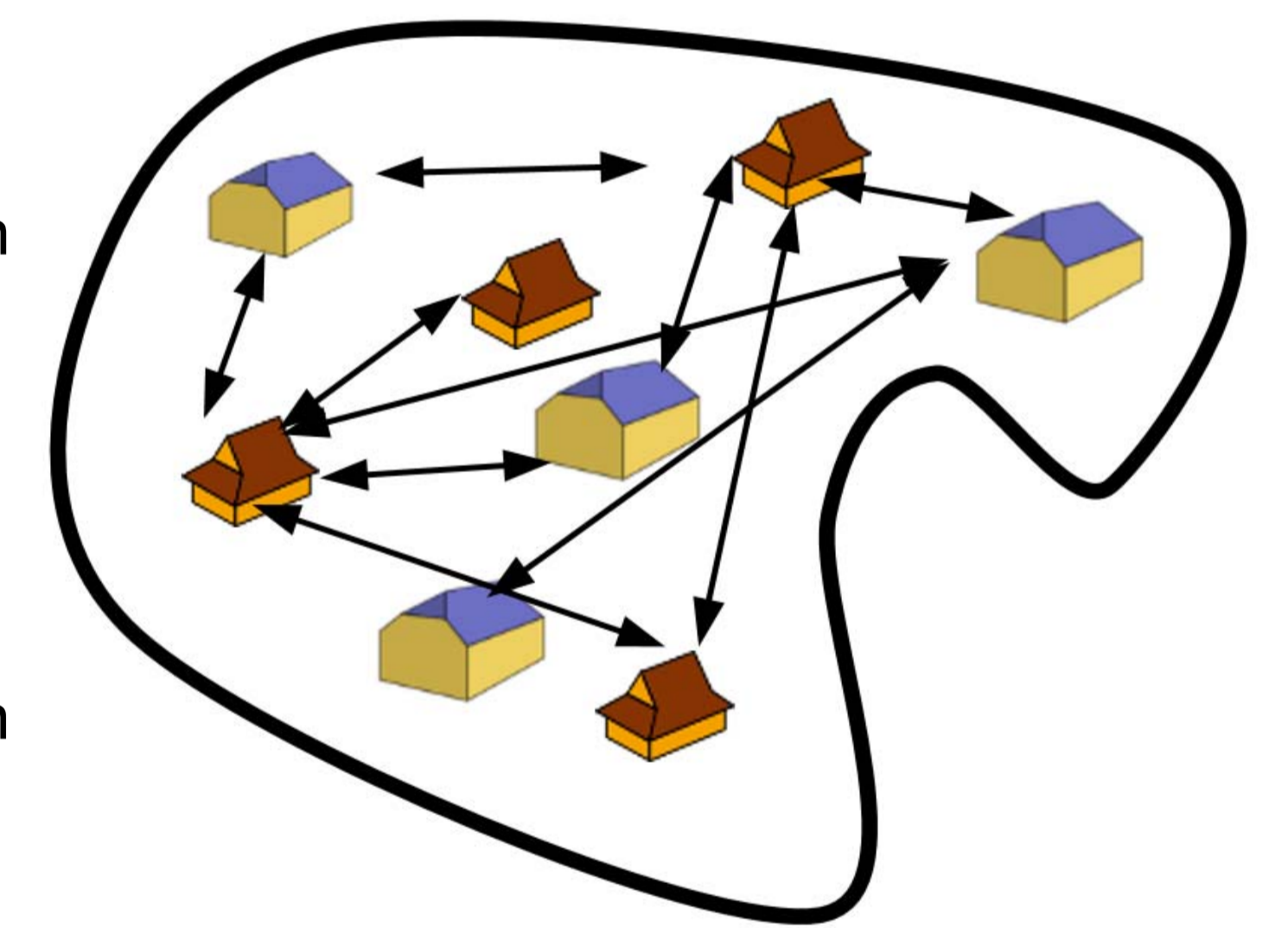
- Farmers in region of Flaachtal collaborate to reduce greenhouse gas emissions
  - 20% less emissions
  - 20% lower costs
  - 20% higher added value
- Approved as Resource Project by Federal Office for Agriculture



## 5 Methods

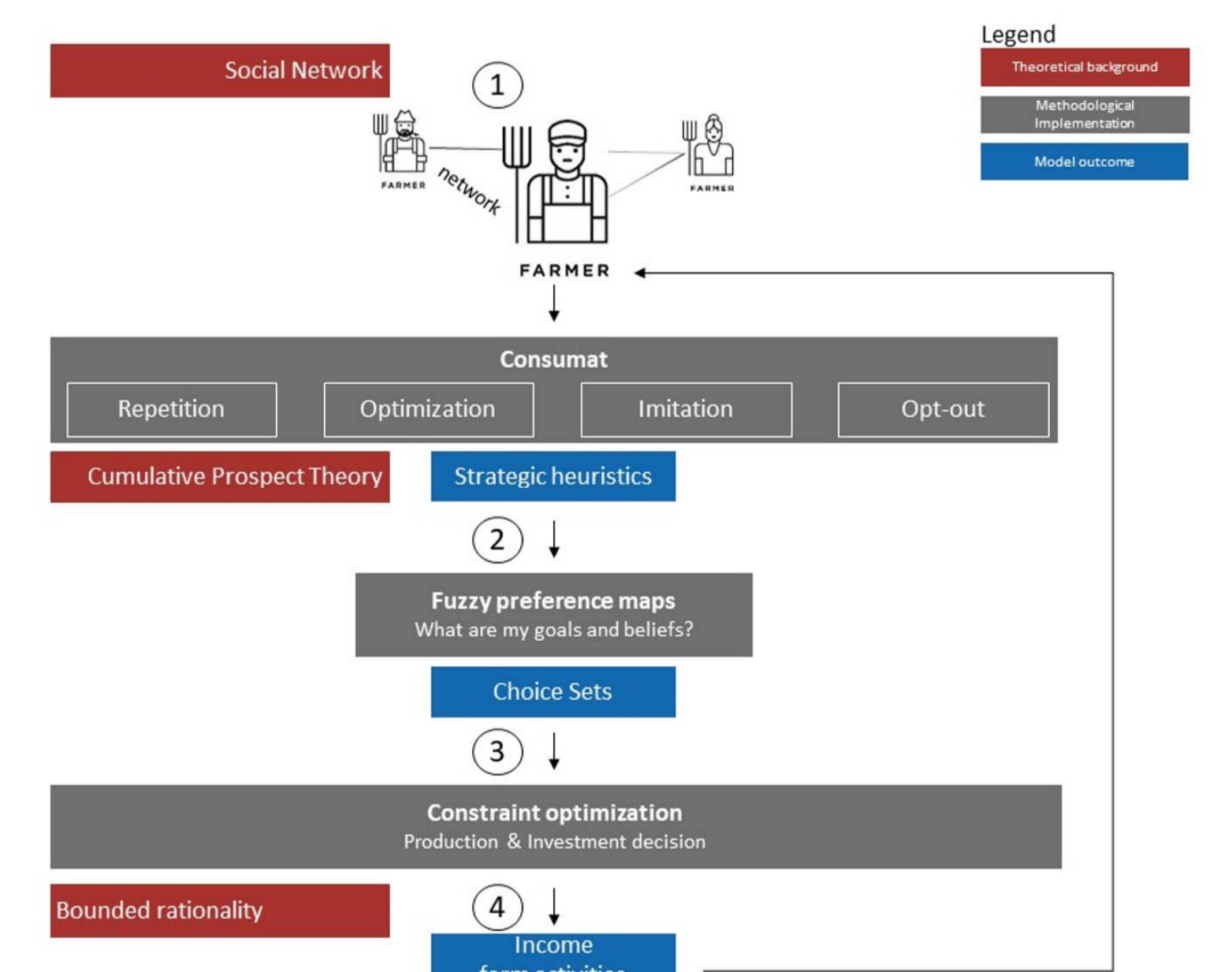
### Social Network Analysis

- In-depth interviews and participatory network mapping with farmers of AgroCO<sub>2</sub>ncept
- Understanding farmers' social networks and their influence on participation in collective mitigation



### Agent-Based Modelling

- Online-survey with farmers from region of Flaachtal
- Simulate interactions and personal preferences of farmers to explain decision-making in context of mitigation
- Assess efficiency of collective and whole-farm approach



## 6 References

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