

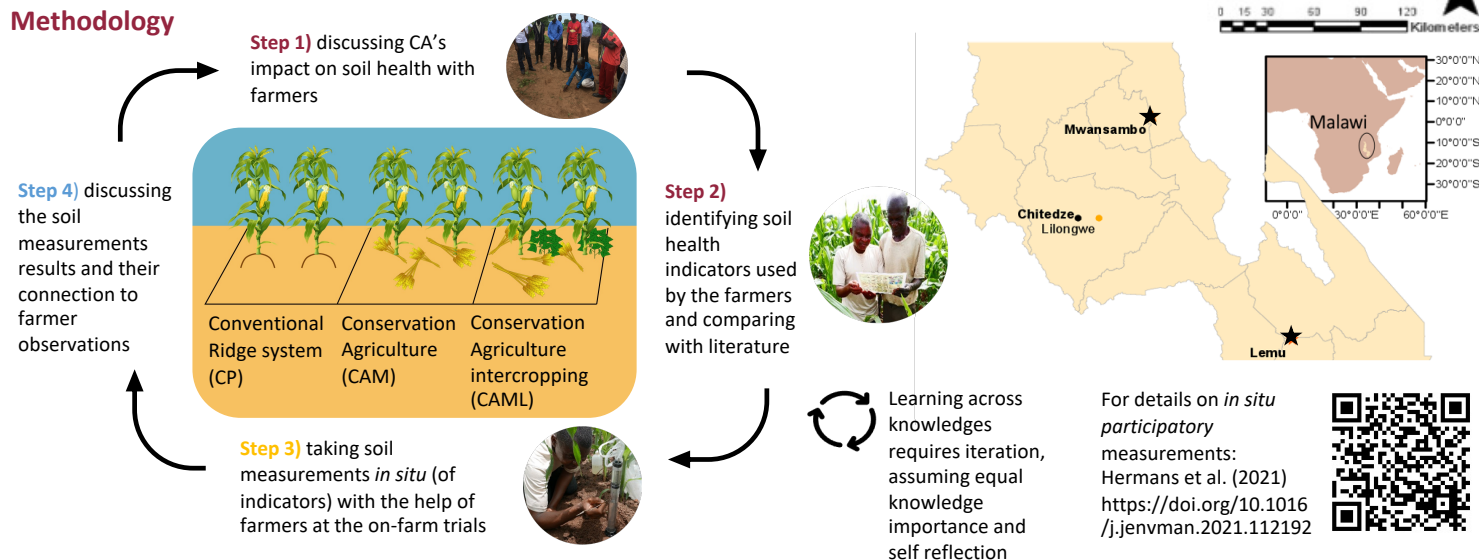
Introduction

Despite positive results on soil parameters such as soil water retention, yield and heat stress resilience, CA uptake across southern Africa has remained low. Previous studies on CA impact on soil health have mainly focused on 'scientific' measurements, thereby not including local knowledge to understand farm system experience of soil health improvement. However, combining soil science and local experience: 1) Contextualises understanding of CA impact on soil health on-farm and 2) improves understanding farmer-decision making on land management

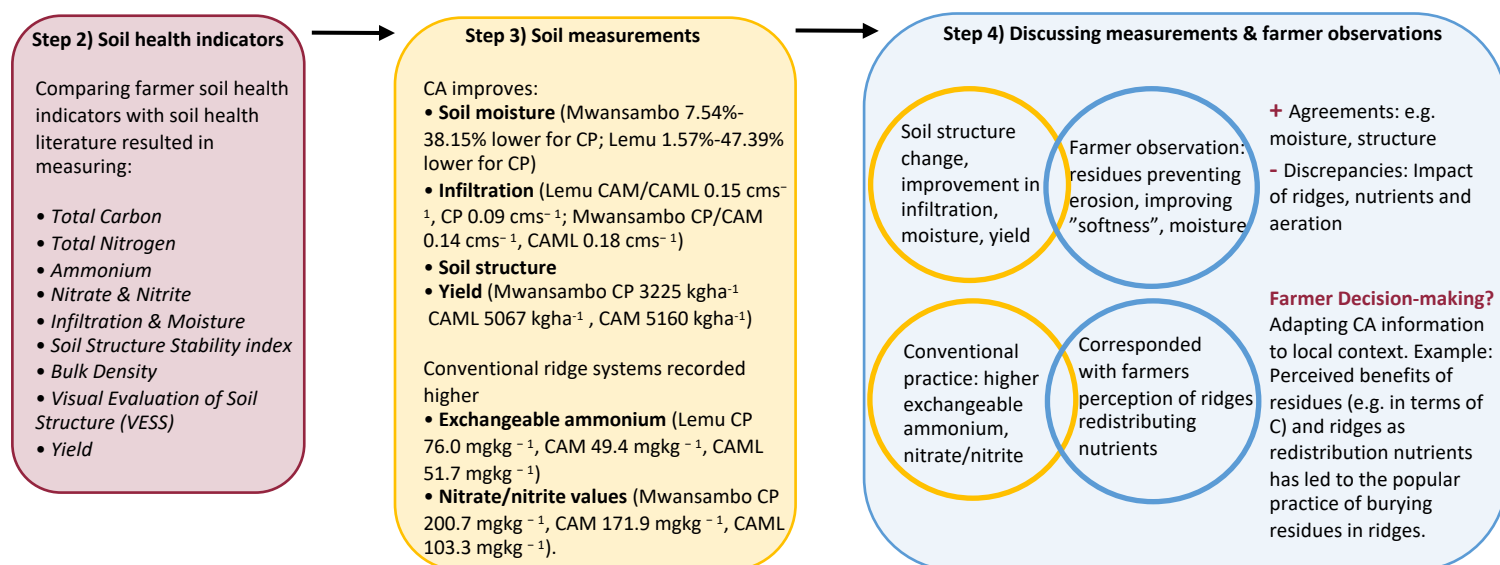
Aims:

- 1) Develop a stepwise framework to combine local knowledge and conventional soil science to develop a contextualised understanding of the impact of CA on soil health on farm trials in two Malawian communities;
- 2) Evaluate the advantages and limitations of such integrated approach to assessment of soil health outcomes.

Methodology



Results



Key Conclusions

- Farmers and measurements agree CA improves soil infiltration, moisture and structure.
- Higher inorganic Nitrogen values were recorded in conventional practice, fitting with farmer perception on ridges and its popularity.
- Discrepancies were found between soil measurements and farmer observation on ridges.
- Integrated approach adds to nuanced and localized perceptions on land management, farmer decision-making and builds a wider evidence base for CA's performance.