



Agroforestry adoption in the context of clean cooking in Central Mozambique: constraints and enabling conditions

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Introduction

- > Most households in Mozambique use woodfuels to meet their domestic energy demand.
- > The annual population growth (3%) puts an additional pressure on remaining forest resources. Therefore, sustainable woodfuel supply chains are vital to meet households' woodfuel demand and to protect natural ecosystems.
- > Agroforestry is an agro-ecological practice which can potentially reduce pressures on natural forests. However, little is known on the quantification of on-farm produced fuelwood and the adoption of agroforestry systems by smallholder farmers is slow.
- In this study, we assess the presence or absence of the main factors necessary for transitioning to agroforestry systems in two villages in Central Mozambique.

Methods

> In-depth interviews were conducted to assess the presence or absence of the factors in Fig. 2 based on the framework by Schoonhoven, Y. and Runhaar, H. (2018).

Study Area



Fig. 1: Study Area

Results

100%

150

- > Each factor was assigned a +1 or -1 if it was considered to have a positive or negative influence, respectively.
- > The sample size was 129 farmers .





Fig. 3: Types of agroforestry adopted by the interviewed farmers



Fig. 2: Potential factors contributing to adoption of agroforestry practices.

References

Schoonhoven, Y. and Runhaar, H. (2018) 'Conditions for the adoption of agro-ecological farming practices: a holistic framework illustrated with the case of almond farming in Andalusia', *International Journal of Agricultural Sustainability*. Taylor & Francis, 16(6), pp. 442–454. doi: 10.1080/14735903.2018.1537664.

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Conclusions

Social norms and government regulations do not restrict adoption;
The policy in place facilitates and incentives non-agro-ecological farming;
Lack of finance and investment possibilities are limiting the adoption of agroforestry systems, whereas woodfuel shortage have been identified as a driver of adoption.



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