

Testing a new green business concept in Zambia

Biochar as soil amendment

Introduction

Soil conservation is important for climate change mitigation and adaptation

Biochar is charcoal produced from plant matter and can be used as soil amendment

Biochar improves soil carbon and has many co-benefits



Conclusion

Biochar as a soil amendment allows mitigation of GHG emissions through storing of carbon in the soil

Conservation farming combined with biochar offers climate change adaptation through increased water and nutrient retention

Materials and methods

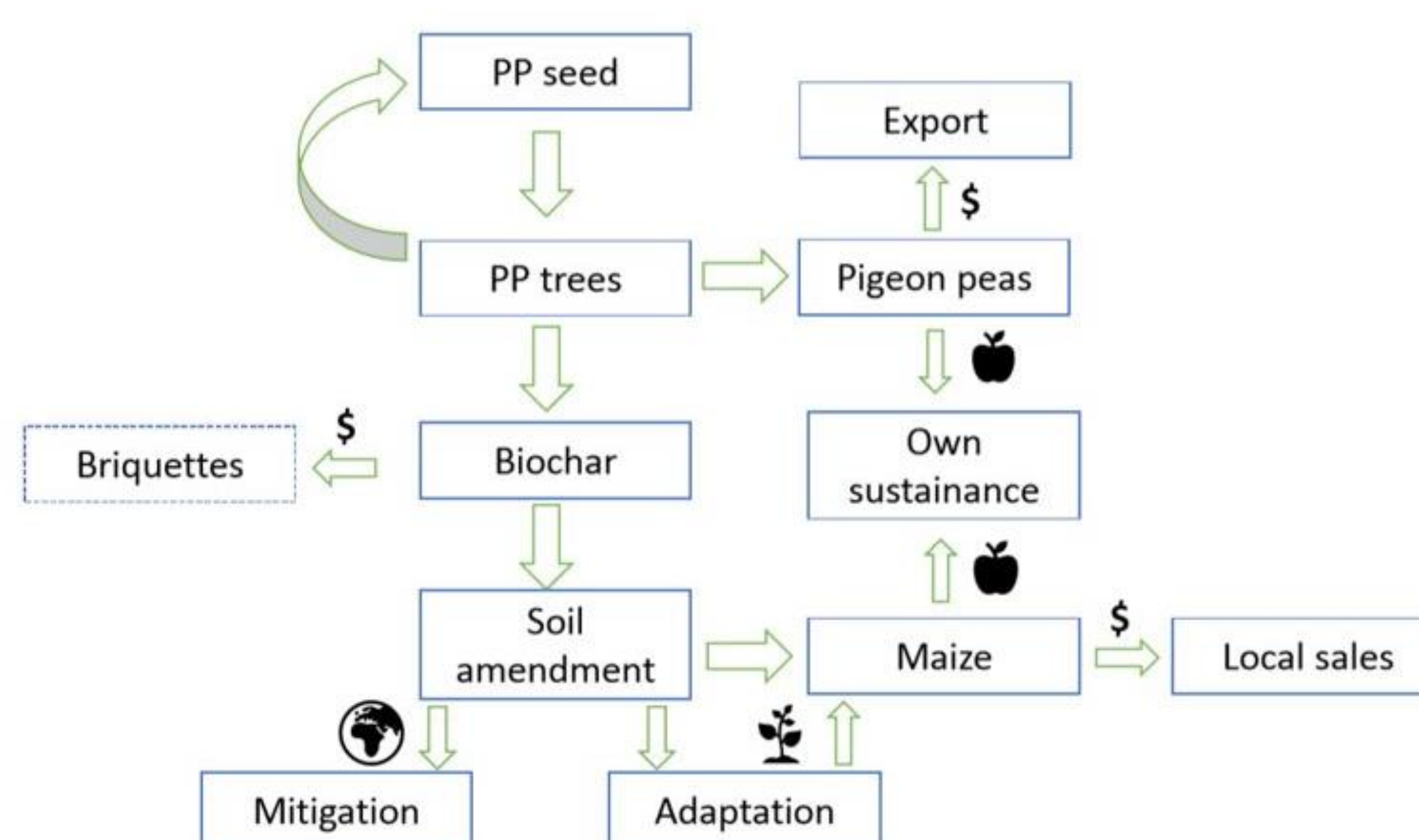
Physical pilot:
-1000 farmers
-125 hectares

Carbon methodology

Randomised control trial of social, environmental and economic results

Results

GHG emission reductions
Local environmental benefits
-Nutrient retention
-Water retention
-Reduced need for fertilisers
-Biodiversity
Improved harvests
Improved livelihoods



The business concept offers a new source of cash income (carbon payments) and decreased vulnerability to shocks (income diversification)

Acknowledgment & Partners

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Further information



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