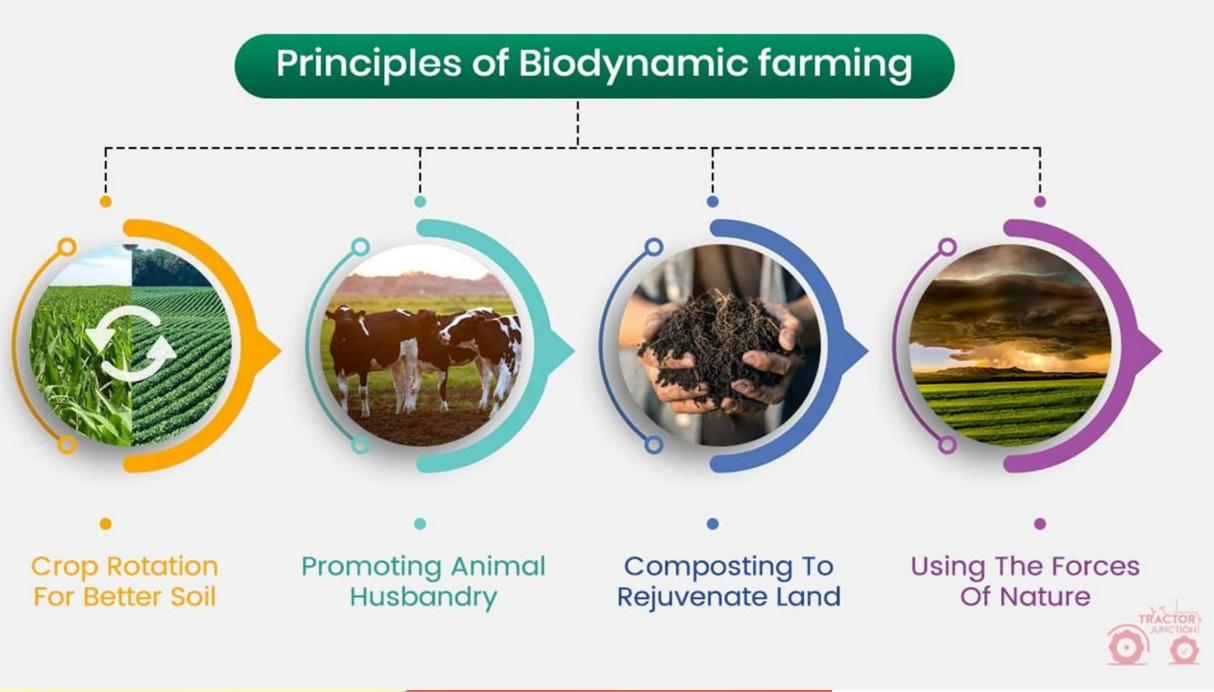
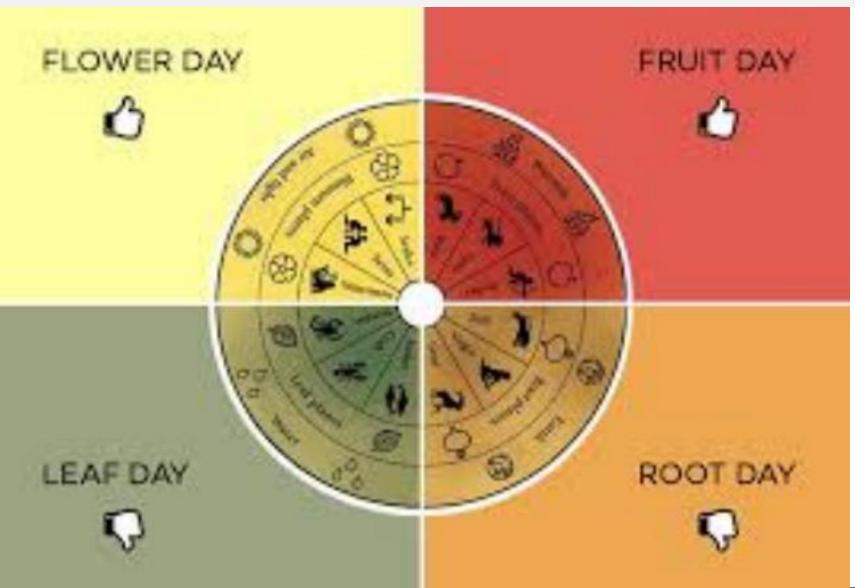


## Introduction



- Biodynamics is a holistic form of agriculture, also known as advanced organic farming
- Biodynamic farmers incorporate earthy and cosmic rhythms in their activities, they perceive the farm as a self sustaining organism, and they prepare and apply for potentized medicines onto their soil and plants, which are known as biodynamic preparations.
- Benefits includes improved soil fertility and structure, water conservation, sustainable ecosystem, reduced production costs through regenerated inputs.







### Introduction cont....



#### -Brief overview of Matatiele region

Integrated farming is the prevalent practice in Matatiele,. Additionally, Matatiele is renowned for its production of organic red meat and wool.

#### -Importance of smallholder farmers in the area,

Smallholder farming is anticipated to have a significant impact on the rejuvenation of the rural economy in South Africa.

Small-scale farmers rely heavily on their local biophysical factors, such as soil type and climatic conditions.

small-scale farming operates as a low-input system.

## Research Problem



- -South Africa is confronted with various development constraints, including food insecurity, resource degradation, social marginalization, and climate change.
- -Vast increasing of population with food demand and extensive use of synthetic fertilizers, PGR, and PPCs.
- -Degradation of soil and natural resources through exploitation by convectional farming practices
- Need for sustainable farming practices as climate smart agriculture strategy.
- Potential of biodynamic farming as a solution.





- -Assess current knowledge of biodynamic farming among Matatiele smallholder farmers
- -Evaluate farmers' perceptions of biodynamic farming as a conservation method
- -Identify factors influencing the adoption of biodynamic farming practices

### Literature Review



#### Challenges to biodynamic farming adoption

- -Yields concerns versus exponentially increasing population
- -Lack of support (research, education, advisory services) in diversified, integrated holistic farming system.
- -Costs incurred with certification of the practice
- -Premium prices of biodynamic products and consumer insights.
- -Over dependence on land
- -Lack of scientific evidence of lunar phases and plant growth stimulation

## Methodology



- cross-sectional survey questionnaire, with close ended questions (attiitudes, perceptions, demographics, beliefs)
- Stratified random sampling
- Sample of 100 small holder farmers (Yamane formular was used from a population of 200)
- Spss software to be used for data analysis

## Expected Outcomes



- Increased understanding of farmers' perceptions
- Identification of barriers to adoption
- Recommendations for promoting biodynamic farming
- Potential impact on conservation efforts

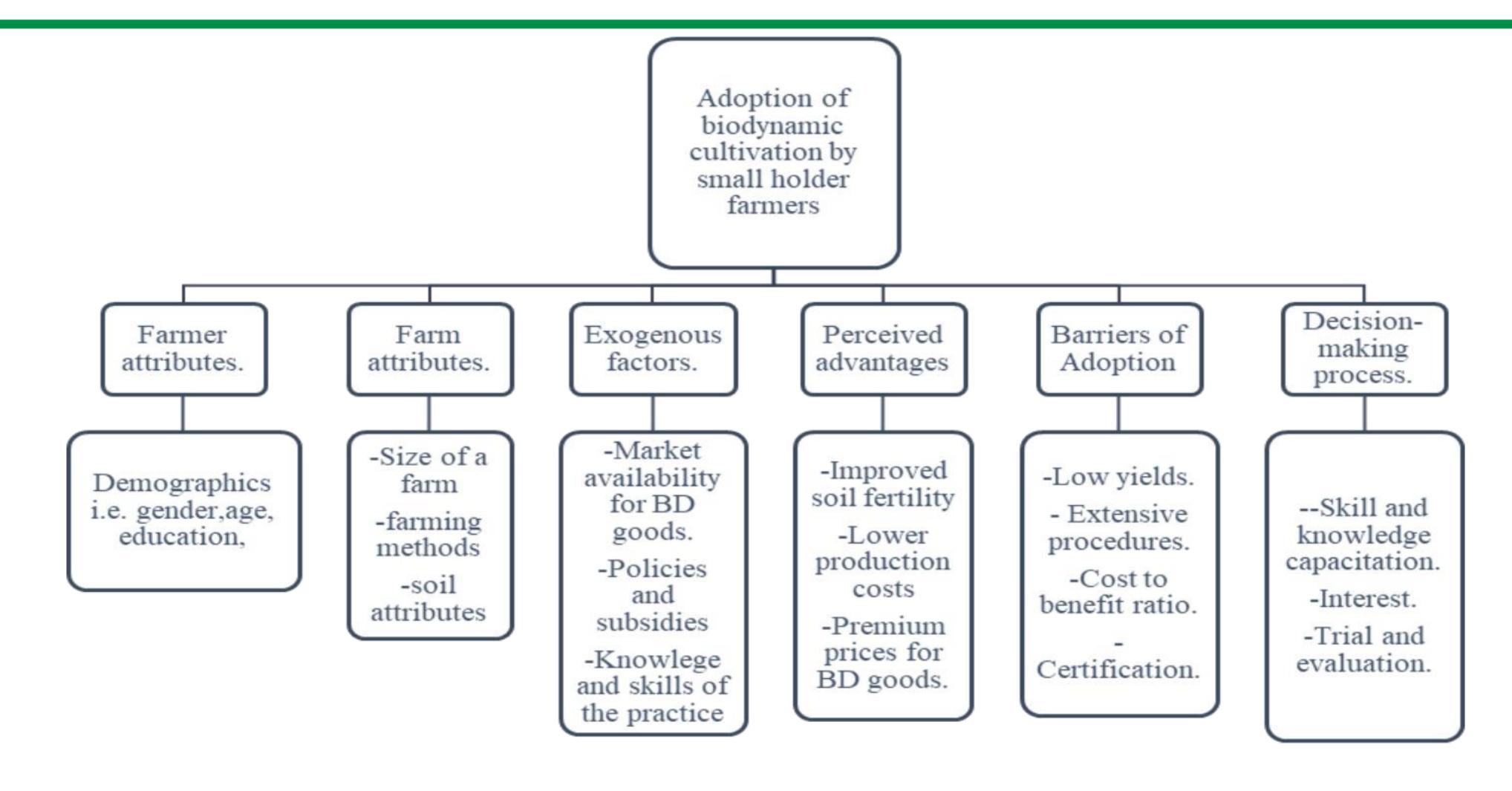
# Significance of the Study



- -Address the knowledge gap among the next generation of farmers about the selection between conservational and conventional farming methods.
- -The adoption of this method is crucial in addressing issues such as soil acidification, soil degradation, and achieving the policy goals of food and nutrition security for all citizens.
- -It aligns with the climate smart agriculture promotion to combat climate change effect
- -Will propose solutions for government organizations, commodity organizations, and market agencies to support and promote these sustainable farming methods.

## Conclusion







- Thank you for your attention

