

Transforming 5000ha: A Vision for Sustainable Community Development

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Introduction

Presenter: Neo Tlagadi

Background: Born and raised in Soweto, with a deep connection to the land where my great-grandparents were born and raised.

Permission: Granted by family to develop 500ha of land in North West Province.

Objective: Transform the land into a sustainable, thriving community through innovative projects.

Vision

Goal: Create a green energy city that promotes sustainability, economic growth, and community development.

Focus Areas: Renewable energy, agriculture, tourism, infrastructure, education, and healthcare.

Key Projects in Innovative Farming Systems

Agro-Processing:

- Establish agro-processing units to increase the value of local crops.
- Processing facilities for fruits, vegetables, grains, and livestock products.
- Develop branded local products for national and international markets.

Hydroponics and Vertical Farming:

- Set up hydroponic systems for efficient, soil-less farming.
- Utilize vertical farming techniques to maximize space usage and increase yield.
- Grow a variety of crops, including leafy greens, herbs, and small fruits

Key Projects in Innovative Farming Systems

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Water Recycling Systems:

- Implement advanced irrigation techniques like drip and sprinkler systems.
- Recycle wastewater for irrigation through purification systems.
- Collect and store rainwater to ensure a consistent water supply.

Key Projects in Innovative Farming Systems

Organic Farming:

- Promote organic farming practices, avoiding synthetic fertilizers and pesticides.
- Use composting and natural pest control methods.
- Establish certification for organic produce to attract premium markets.

Agrivoltaics:

- Install solar panels above crops to combine solar energy generation with agriculture.
- Provide shade to crops, reducing water evaporation and protecting from extreme weather.
- Create microclimates that can boost certain crop yields.

Additional Key Projects

Green Energy City:

- Solar farming to provide clean energy.
- Manufacturing facilities for renewable energy components.

Water and Sanitation Recycling Systems:

- Advanced water recycling technologies.
- Sanitation systems to ensure a clean environment.

Skills Management Facilities:

- Training centers to develop local skills in various trades.

Public Services:

- Building schools, universities, hospitals, and hotels.

Additional Key Projects

Plantation Purification Dams:

- Dams for water purification and irrigation.

Modern Transportation Systems:

- Innovative train systems for efficient transportation.

Real Estate Development:

- Construction of malls, roads, commercial and industrial properties.
- Development of residential areas, including affordable housing.
- Establishment of petrol and charging stations.

Tourism Development:

- Establish eco-tourism attractions showcasing sustainable farming and green energy projects.
- Organize local festivals and markets to promote regional crafts, food, and culture.

Economic Value to Poor Rural Townships

- Job Creation
- Skill Development
- Improved standard of living for local families
- Local Business Growth
- Community Development
- Sustainable Economic Growth
- Create farming cooperatives to engage local farmers and share resources.

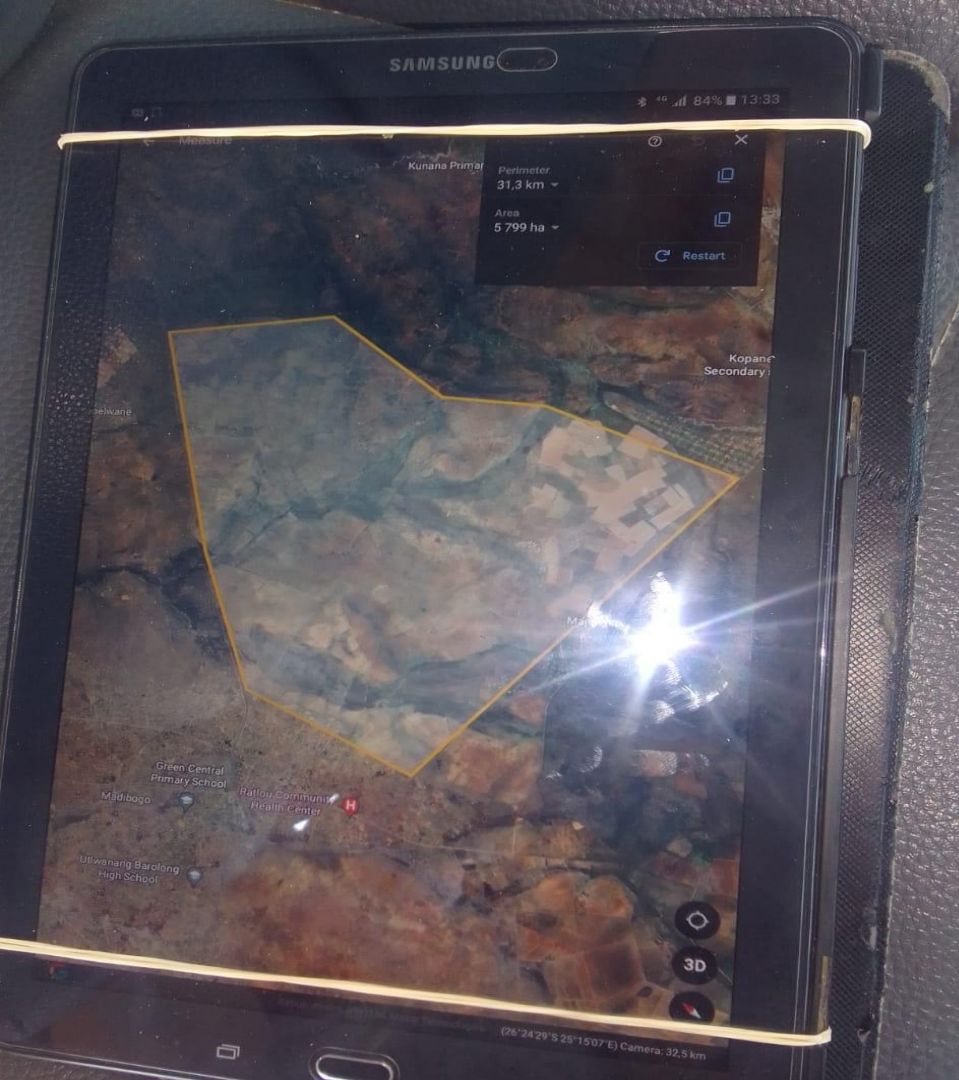
Sustainability and Innovation

Eco-Friendly Practices:

- Emphasize sustainability in all farming activities.
- Use renewable energy sources and recycle resources.

Long-Term Vision:

- Plan for scalability and adaptability of farming systems.
- Innovate continuously to meet future agricultural challenges.



NWK-OMNIA agentskap

Kunsmisbemarking



Date: 14 October 2021



Name Mokaleng Joseph
Farm Morena
Land L4
Crop Maize

Opp: 15

Irrigation: No
Target yield: 3.0 t/ha

Kg/ha	Product	R/ha	N	P	K	S
	Nutrition required		55	14	0	12
	With plant		36.8	14	0	8.75
175	21:8:0(30)+Zn+S					
	Topdress		19.5			3
75	Greensulf					
	Total	0	56.3	14.0	0.0	11.75

Land L4
Crop Sunflower

Opp:

Irrigation: No
Target yield: 1.2 t/ha

Kg/ha	Product	R/ha	N	P	K	S
	Nutrition required		35	4	0	8
	With plant		33.3	4.17	0	4.5
150	8:1:0(25)+Zn+B					
	Total	0	33.3	4.17	0	4.5

Land
Crop

Opp:

Irrigation: No
Target yield:

Kg/ha	Product	R/ha	N	P	K	S
	Nutrition required					
	With plant		0.0	0	0	0
	Total	0	0.0	0	0	0

Lime requirement

Land	t/ha	Product				
L4						

Agronomist: Jan du Toit (Pr.Sci.Nat)
083 627 4402

Rep: Justice Modise
076 791 6253



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THE END

THANK YOU.