

SAT-WILD

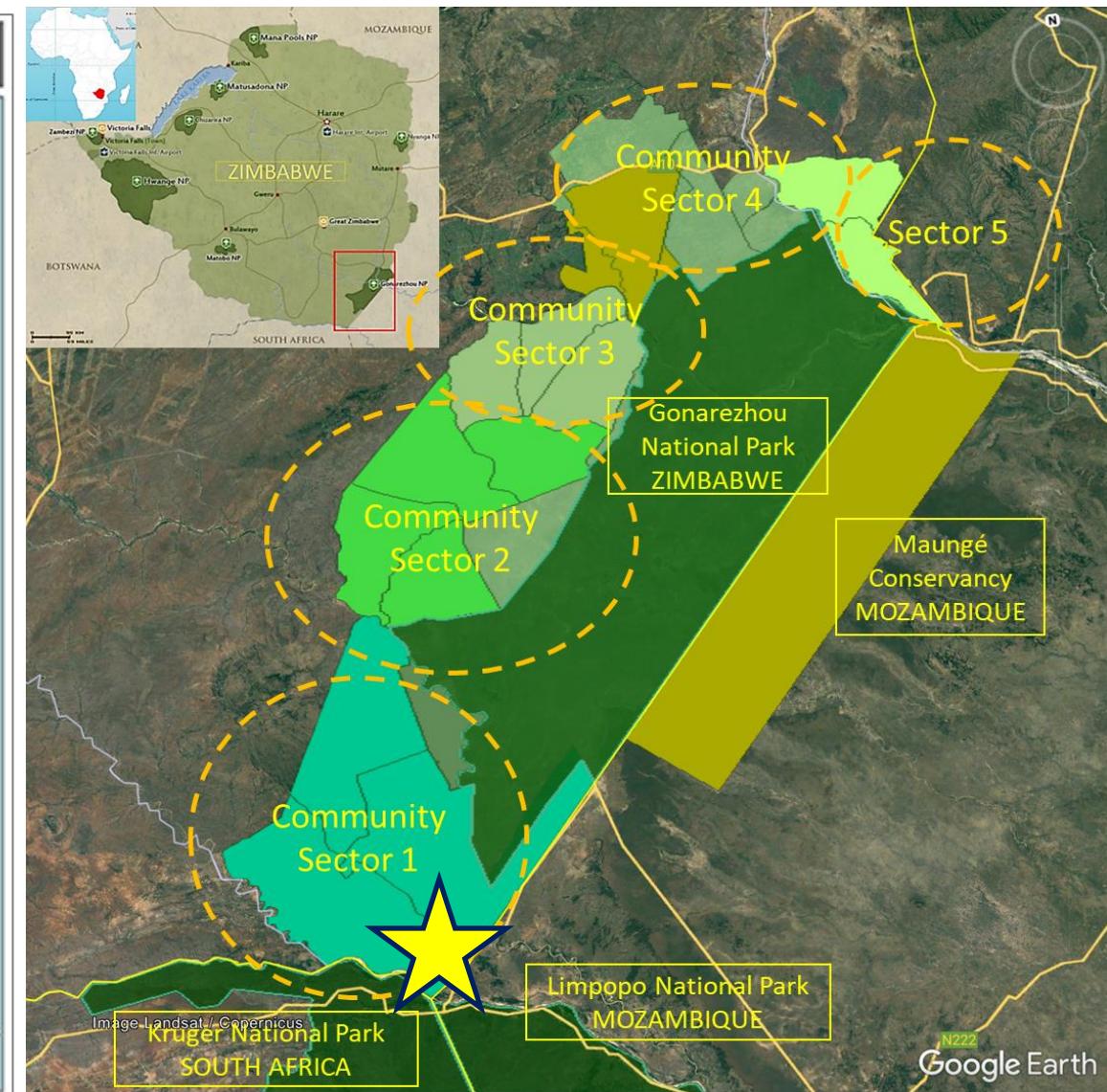
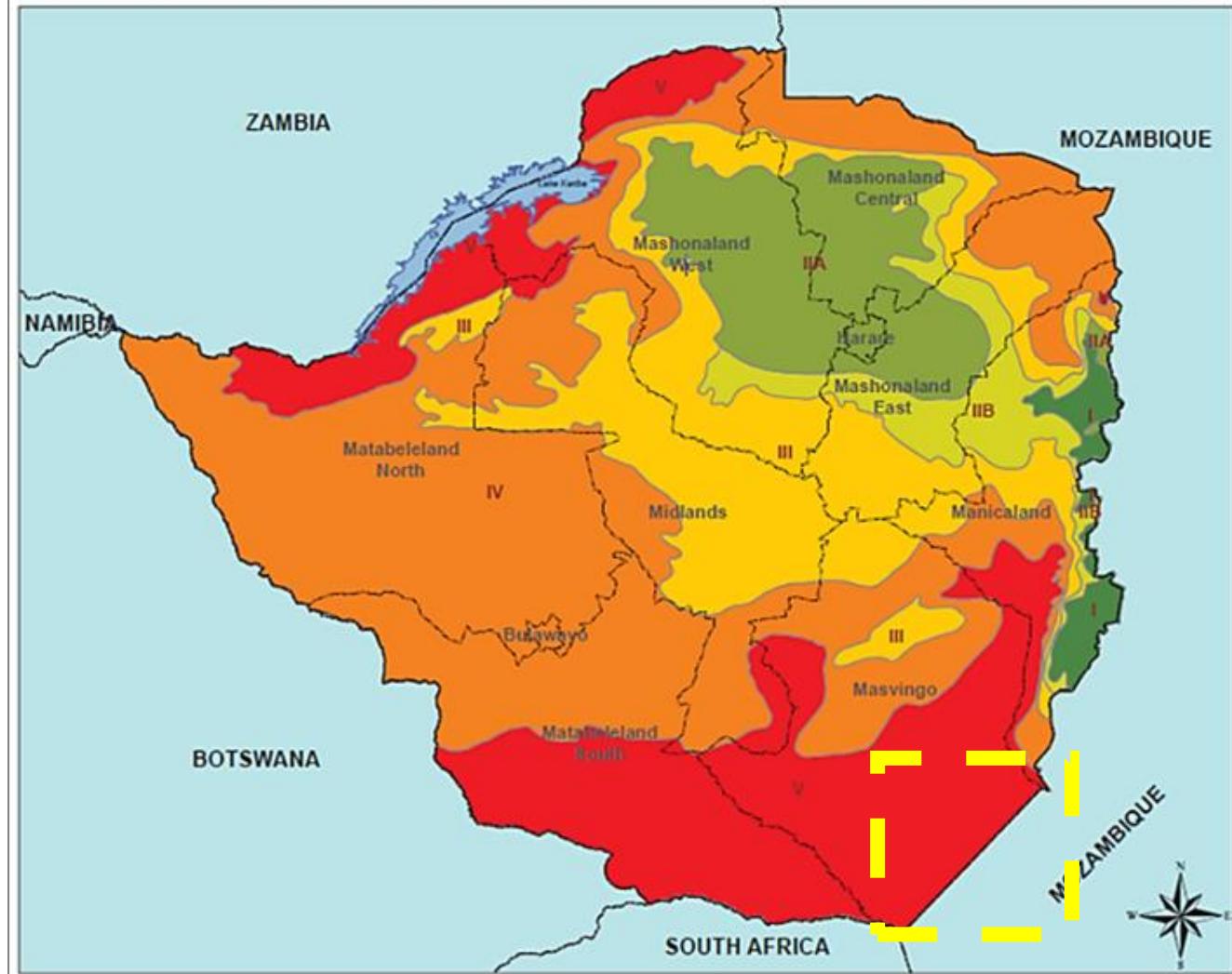
Integrated Agriculture & Land Restoration Project

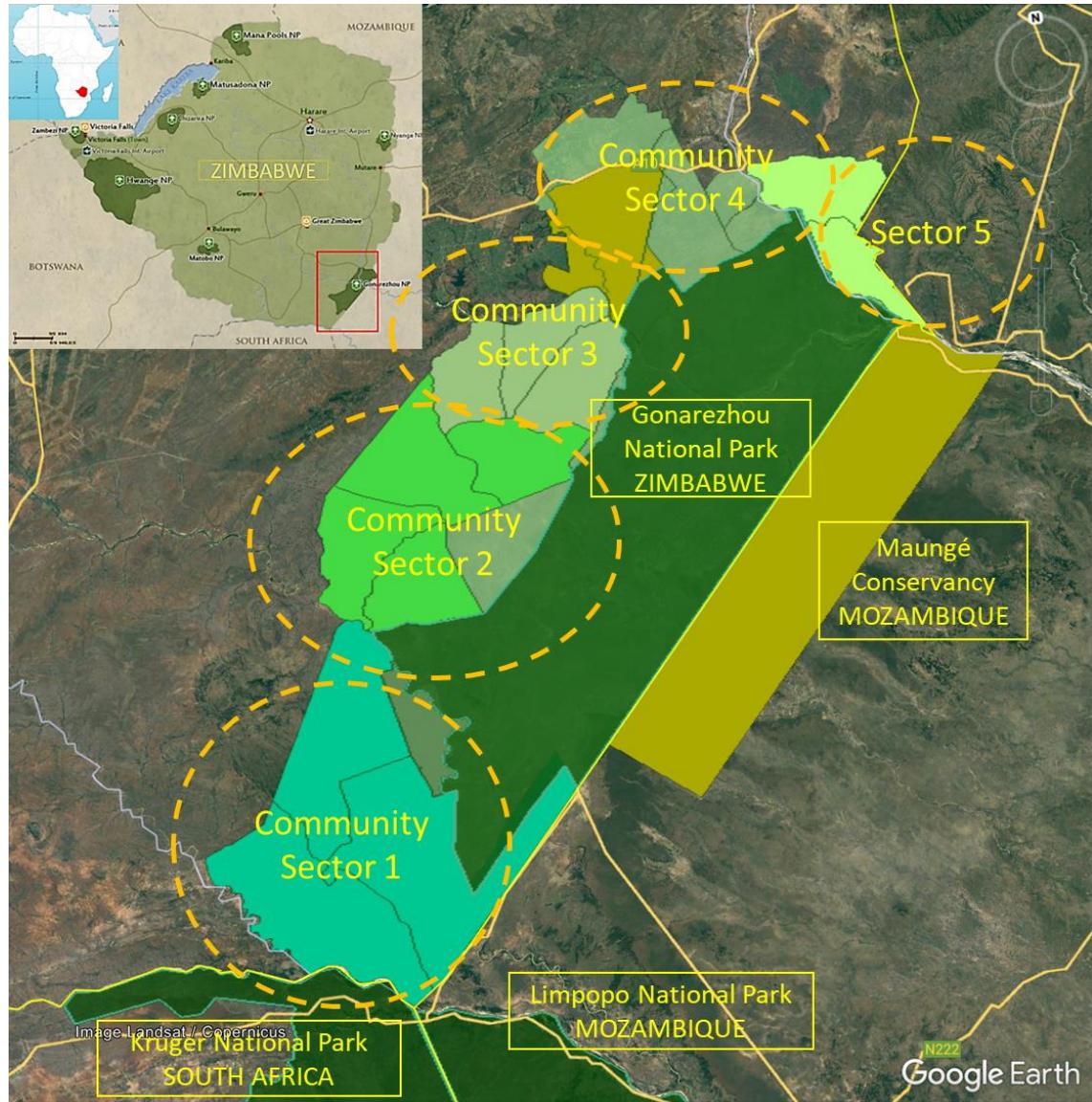
Overall objective

- To promote *holistic & inclusive social, livelihood, and environmental prosperity and resilience of communities neighboring Gonarezhou National Park in the Zimbabwean portion of the Great Limpopo Trans-Frontier Conservation Area (GLTFCA)*



ZIMBABWE - Agro-ecological Zones Map





- 5 Communities self-organized according to traditional leadership, kinship, and socio-economic operation
- >150,000 people (54% female; 30k HH)

Social context:

- Patriarchal Va-Tsonga (Shangaan) Community
- Lack of economic opportunity & employment
- Emigration of migrant labour to RSA
- Defunct education system with extremely poor pass-rates and exceptionally low school completion rates for girls ...
 - high incidence of childhood marriage
 - lack support, confidence, & time to partake in civic discourse and leadership
- Historically resident inside GNP



HOW WE WORK ...



INCLUSIVE PARTICIPATORY RESILIENCE PLANNING at Village level
FOR INTEGRATED LANDSCAPE MANAGEMENT & SUSTAINABLE DEVELOPMENT
Under auspices of the CHIREDZI RESILIENCE PARTNERSHIP (SAT, GCT, RDC, Communities)

THREE-LEGGED POT MODEL OF RESILIENCE

PILLAR 1: Climate-Adapted Livelihoods & Economic Sustainability

Food & water security; Sustainable economic development; CLIMATE-ADAPTED livelihood diversification

PILLAR 2: Social justice, Voice, & Equity

Human Rights; GENDER & YOUTH EQUITY; Home; Education & Youth Development; Health & Sanitation; Energy; Voice; Community & Culture; freedoms of movement, speech and association

PILLAR 3: Environmental Sustainability

Prevention and reversal of: Land degradation; Deforestation; Climate change; GHG emissions; Pollution; Biodiversity loss

Promotion of: fresh water provision; Ecosystem health; Nutrient cycles; GHG sequestration; Green economy



IF THE LEGS ARE MISMATCHED, THE POT WILL TOPPLE, RESILIENCE IS LOST AND THE SYSTEM WILL COLLAPSE



EU-FUNDED INTEGRATED LANDSCAPE MANAGEMENT
PROJECT FOR GONAREZHOU & NEIGHBOURING
COMMUNITIES



HOWEVER, THE STABILITY OF THE POT ALSO RELIES ON THE GOVERNANCE, INSTITUTIONAL AND POLICY FRAMEWORK BASE UPON WHICH IT IS PLACED



Incompetent, Iniquitous, Non-representative, Imbalanced (gender, age) Corrupt, Non-transparent Governance will cause the system to collapse

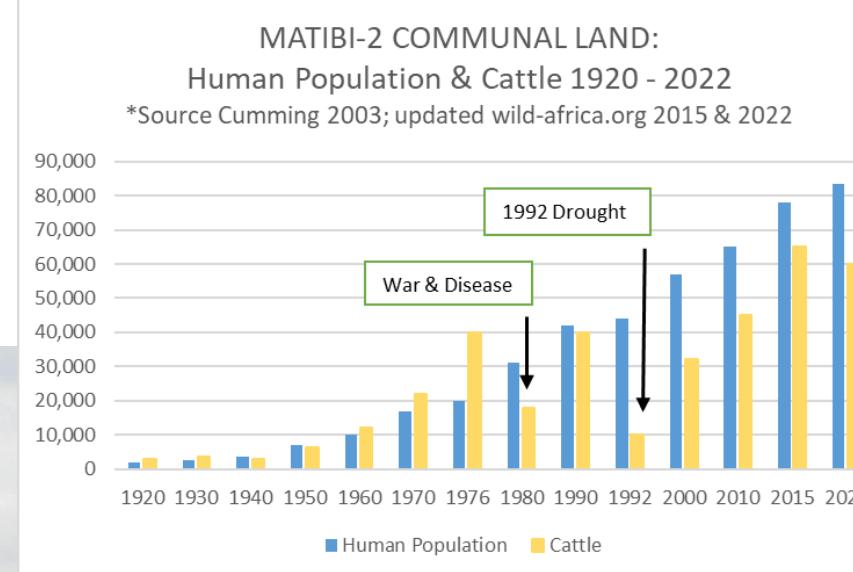
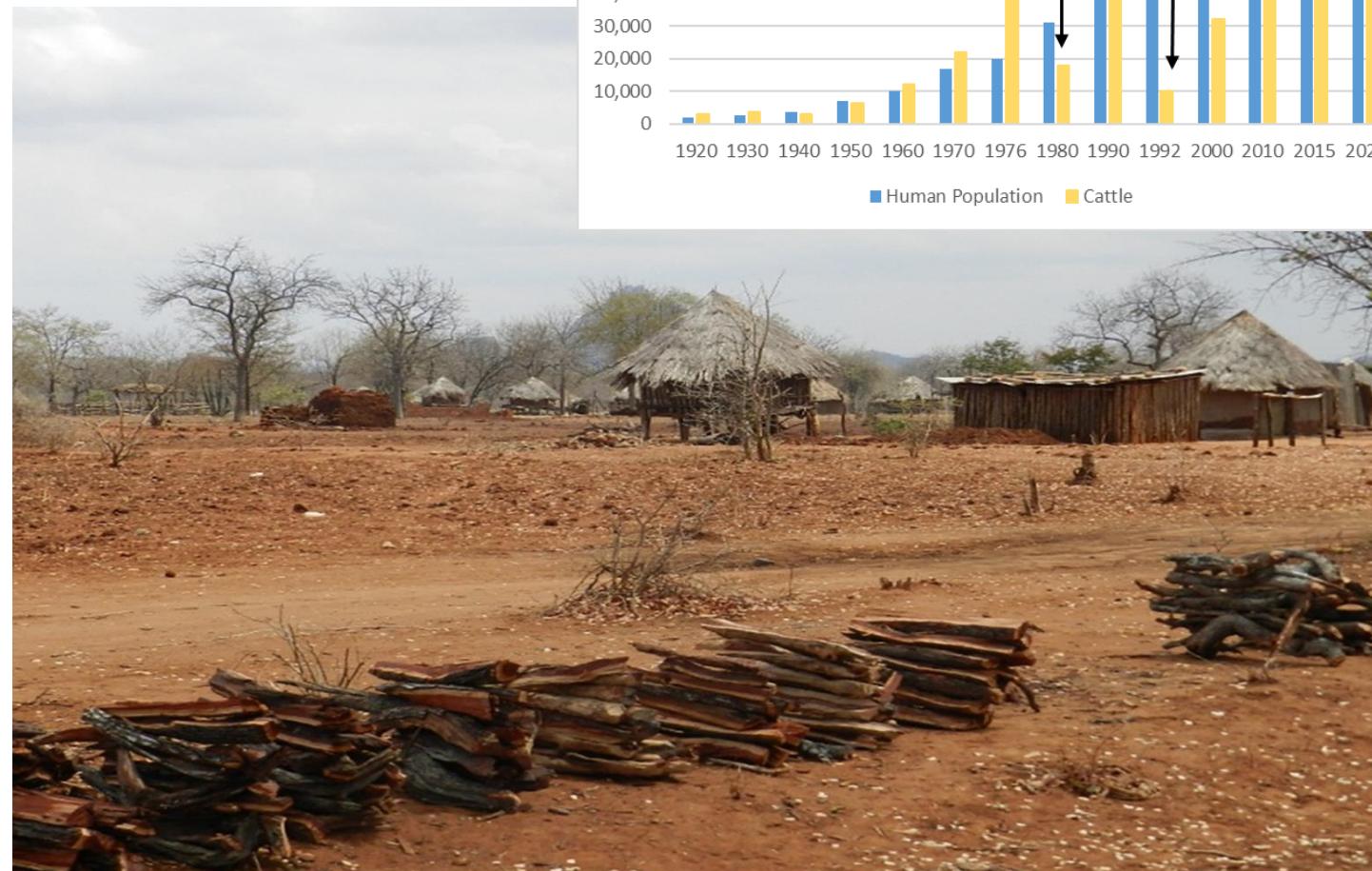


**EU-FUNDED INTEGRATED LANDSCAPE MANAGEMENT
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COMMUNITIES**

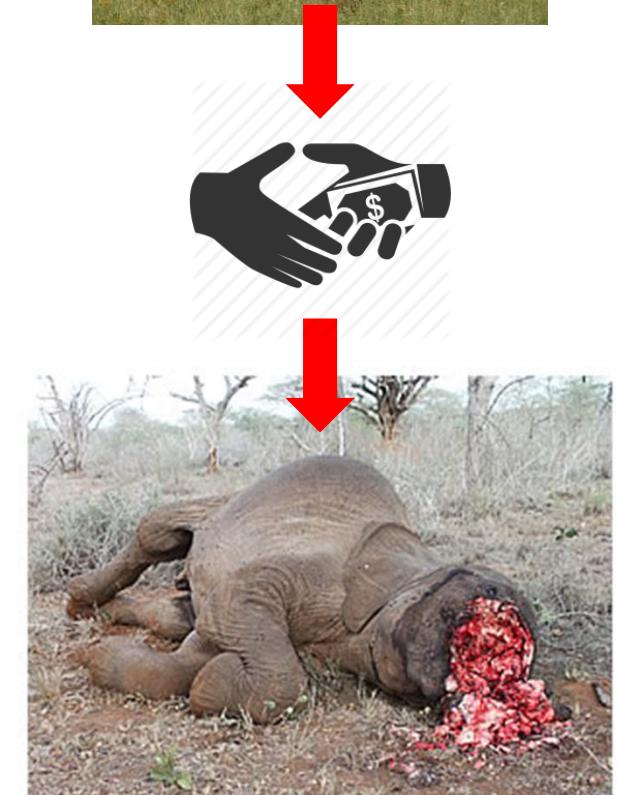
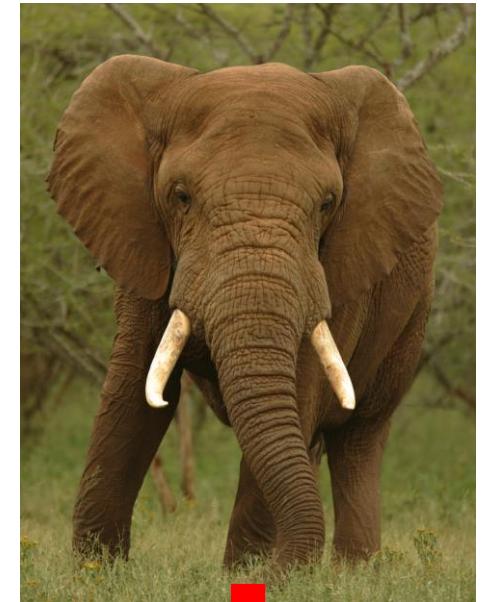


THE CHALLENGE

- Very hot drought-prone climate
- Growing human population
- **Subsisting on unproductive slash-&-burn agriculture**
- **Severe progressive degradation of land and water catchments**
- Chronic poverty & food insecurity
- Conflicts around Wildlife Areas
- **Ecological & Socio-economic vulnerability**



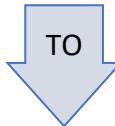
Unmitigated Human-Wildlife-Conflict is a serious social injustice



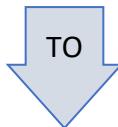
Addressing the “triple challenge” (of climate change)

Traditional 1st world Approach

(1) HALT & REVERSE BIODIVERSITY LOSS



(2) ENSURE ESSENTIAL ECOSYSTEM SERVICES

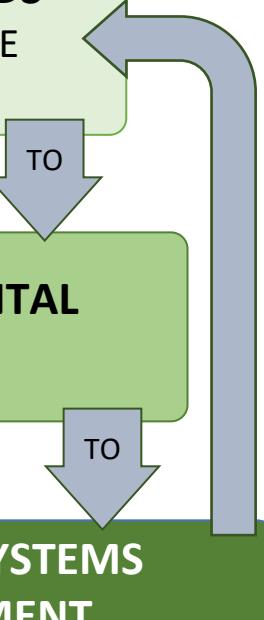


(3) MITIGATE CLIMATE CHANGE & SUPPORT HUMAN LIVELIHOODS & NEEDS

SAT-WILD Approach

(1) SUPPORT HUMAN LIVELIHOODS & NEEDS

→ LIVELIHOODS, FOOD SECURITY, SUSTAINABLE DEVELOPMENT



(2) ENABLE & LEVERAGE ENVIRONMENTAL RESTORATION & PROTECTION



(3) RESTORE FUNCTIONAL ECOSYSTEMS
GREEN ECONOMIC DEVELOPMENT
WILDLIFE BUFFERS & CORRIDORS
CARBON CREDITS

BUT ENVIRONMENTAL PROTECTION DOES NOT WORK ON AN EMPTY STOMACH!



SAT-WILD / OAK PARTNERSHIP with Malipati Community Development Trust (Phase 1 development of Agri-Hub)

MAIN INPUT = **SOLAR IRRIGATED AGRI-HUB**



Rotational irrigated regenerative cropping
Incorporating Agro-Ecological principles at scale
Producing 10-12 tons per Ha every year under irrigation
vs 200kg per Ha every 5 or 6 years under subsistence cropping!

MAIN OUTCOMES

INTENSIFIED CLIMATE-ADAPTED AGRICULTURE

- IMPROVED LIVELIHOODS & FOOD SECURITY
- REDUCED HUMAN-WILDLIFE-CONFLICT

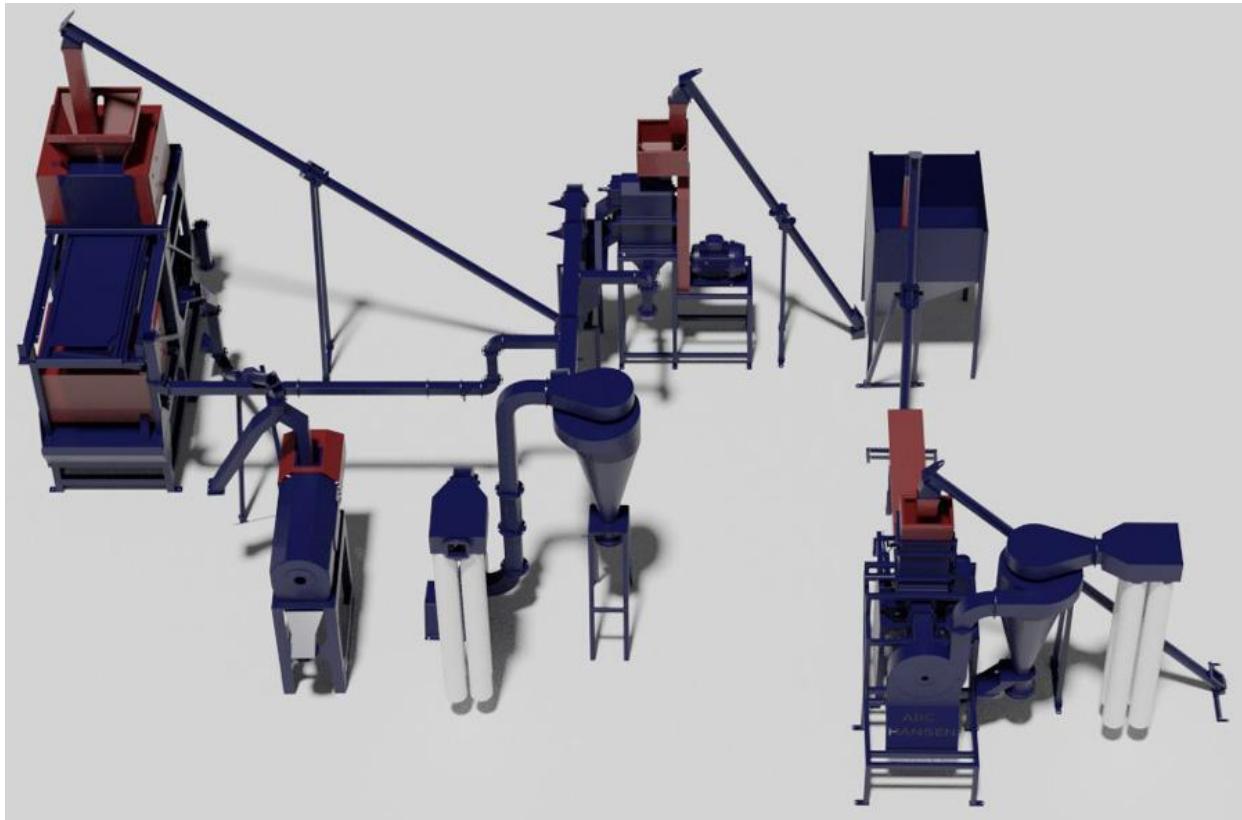
ENABLING & LEVERAGING ENVIRONMENTAL RESTORATION & PROTECTION of degraded agricultural land

ECOLOGICAL RESILIENCE
GREEN ECONOMIC DEVELOPMENT
WILDLIFE BUFFERS & CORRIDORS
CARBON CREDITS



AGRI-HUB (Phase 2)

MAIN INPUT = FEED PROCESSING CENTER



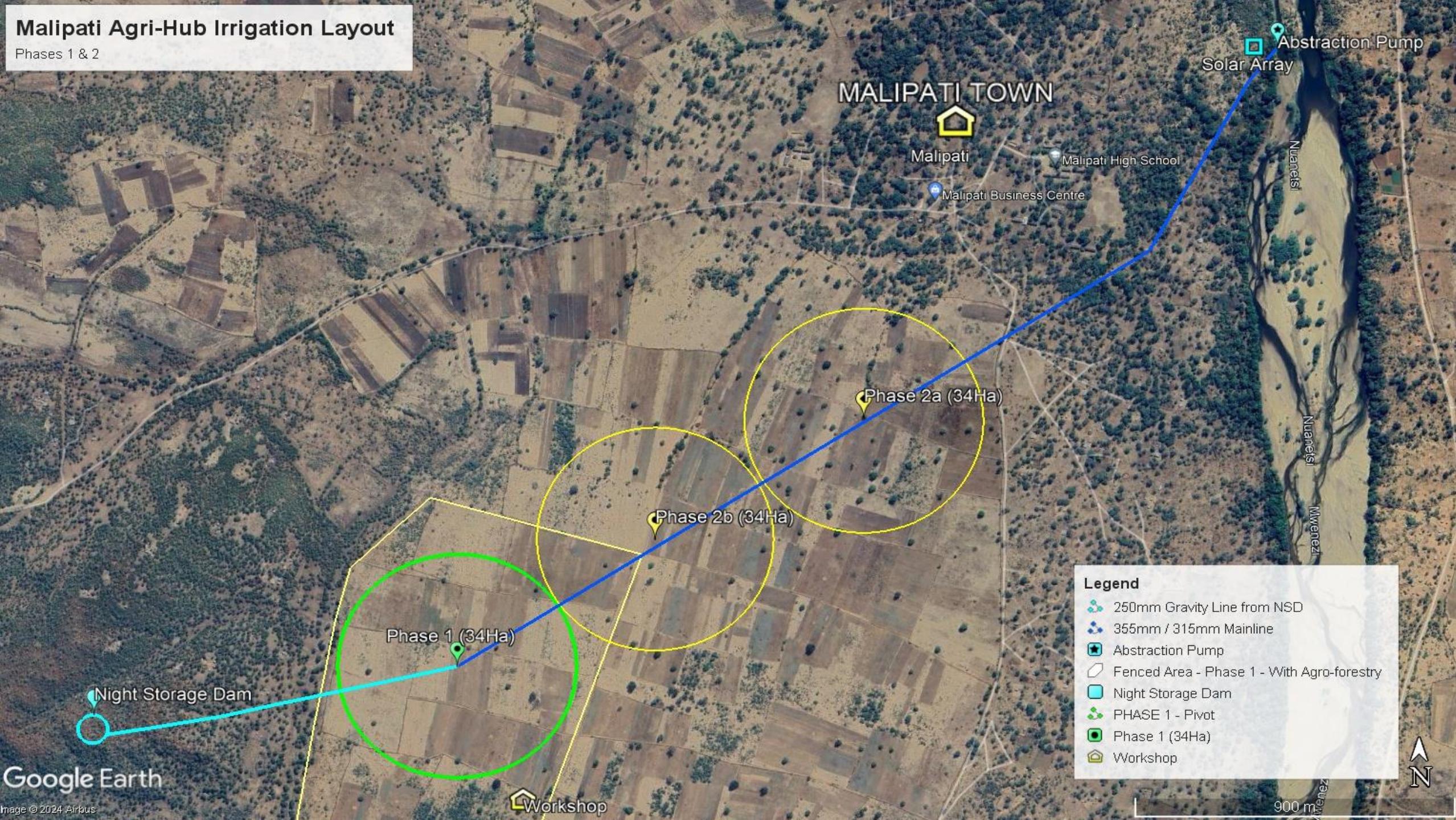
MAIN OUTPUTS

- **AGGREGATION, PROCESSING & VALUE ADDITION:**
 - Sesame
 - Paprika
 - Feed processing
- **As women & youth social enterprises to fund:**
 - School Renovations & Education support
 - Local employment for Environment Restoration
 - Subsidy of climate smart tech. & LH opportunities
 - Social & environmental security programs
 - Women & youth enterprise



Malipati Agri-Hub Irrigation Layout

Phases 1 & 2



Google Earth

Image © 2024 Airbus

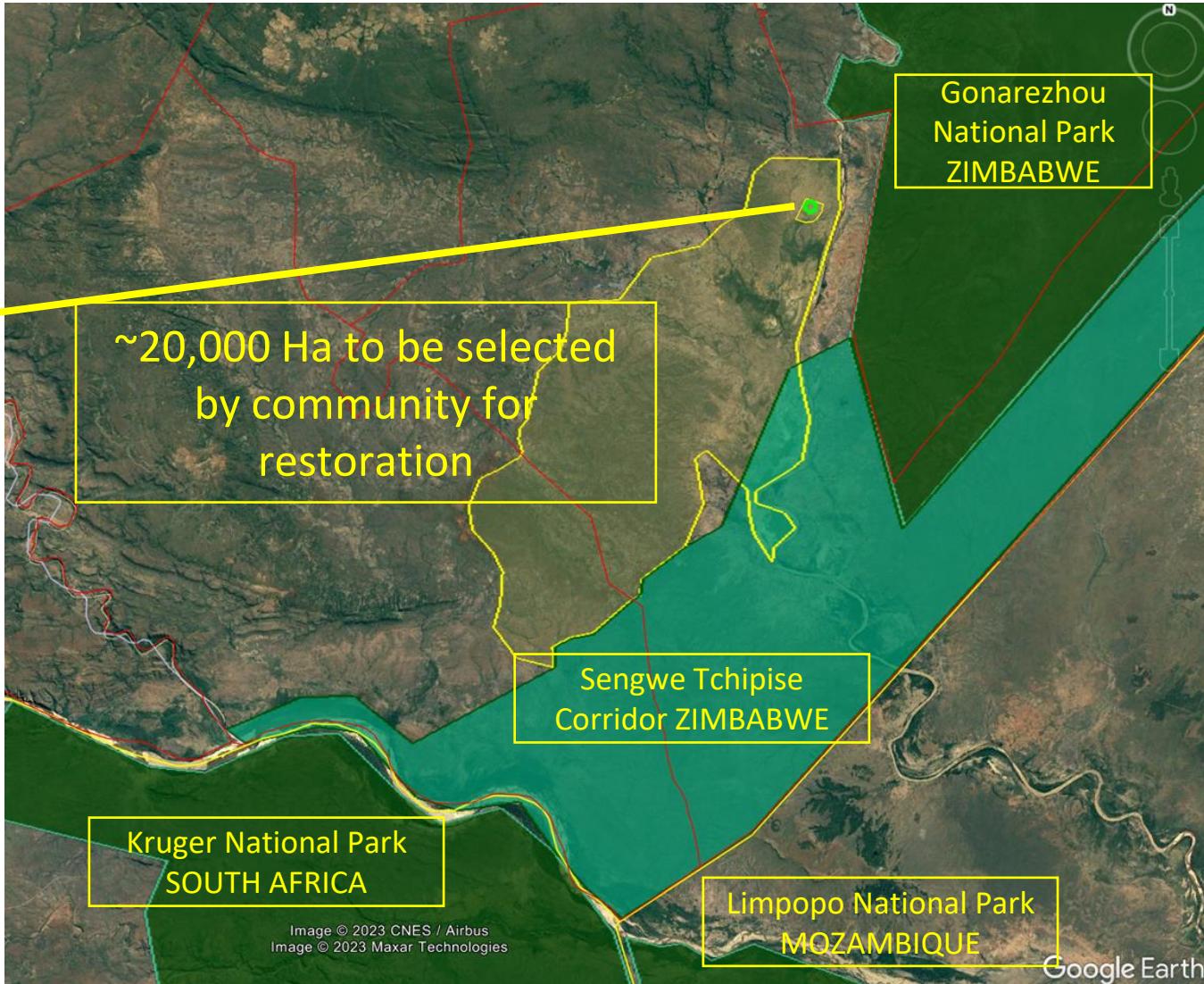
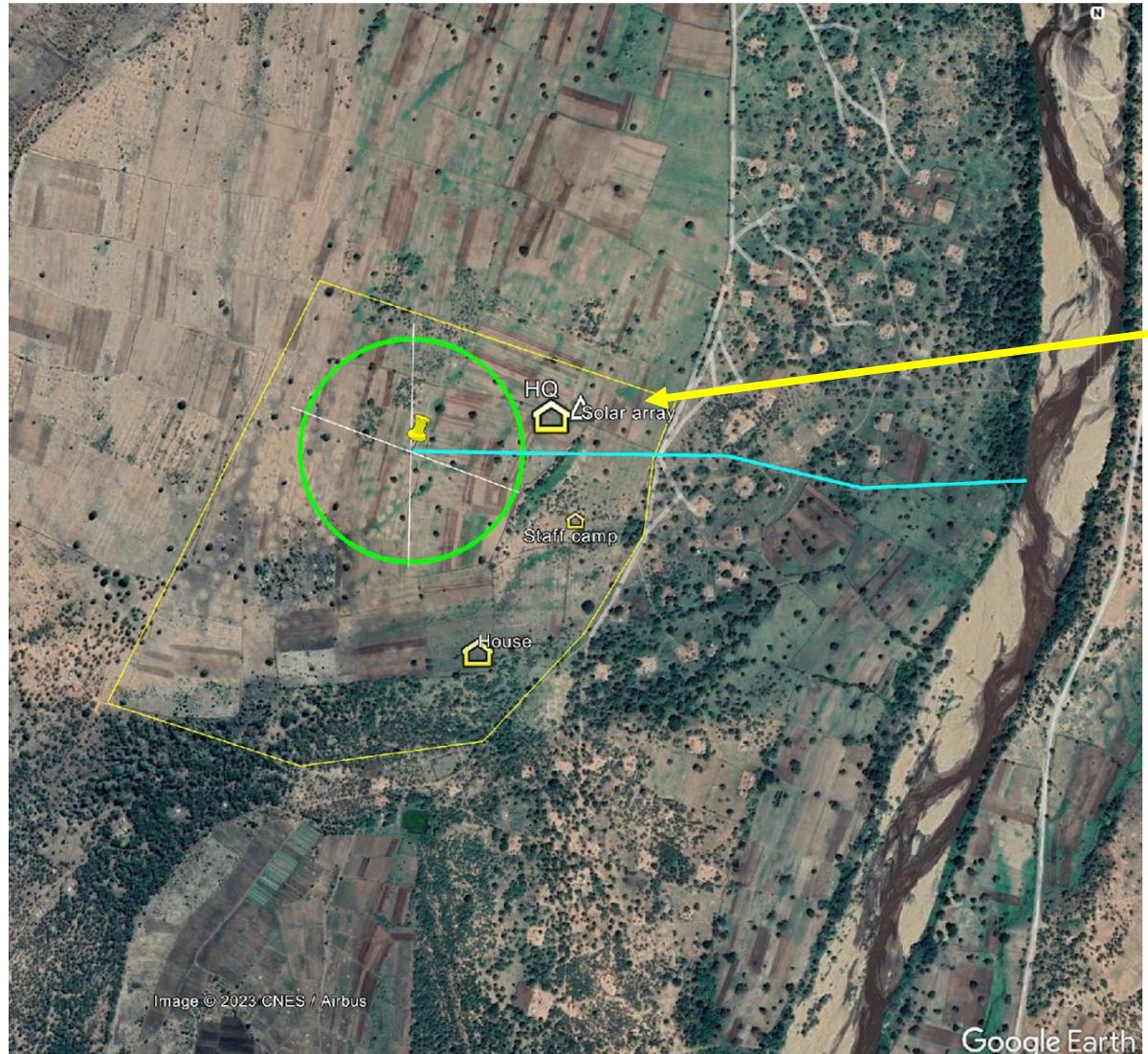
Legend

- 250mm Gravity Line from NSD
- 355mm / 315mm Mainline
- Abstraction Pump
- Fenced Area - Phase 1 - With Agro-forestry
- Night Storage Dam
- PHASE 1 - Pivot
- Phase 1 (34Ha)
- Workshop



900 m

Malipati irrigation / restoration project



Manjinji 2019

(Fenced in 2020)



SAT WILDLIFE IN LIVELIHOOD DEVELOPMENT PROGRAMME



Manjinji 2022
(Fenced in 2020)



SAT WILDLIFE IN LIVELIHOOD DEVELOPMENT PROGRAMME



Integrated Agroforestry

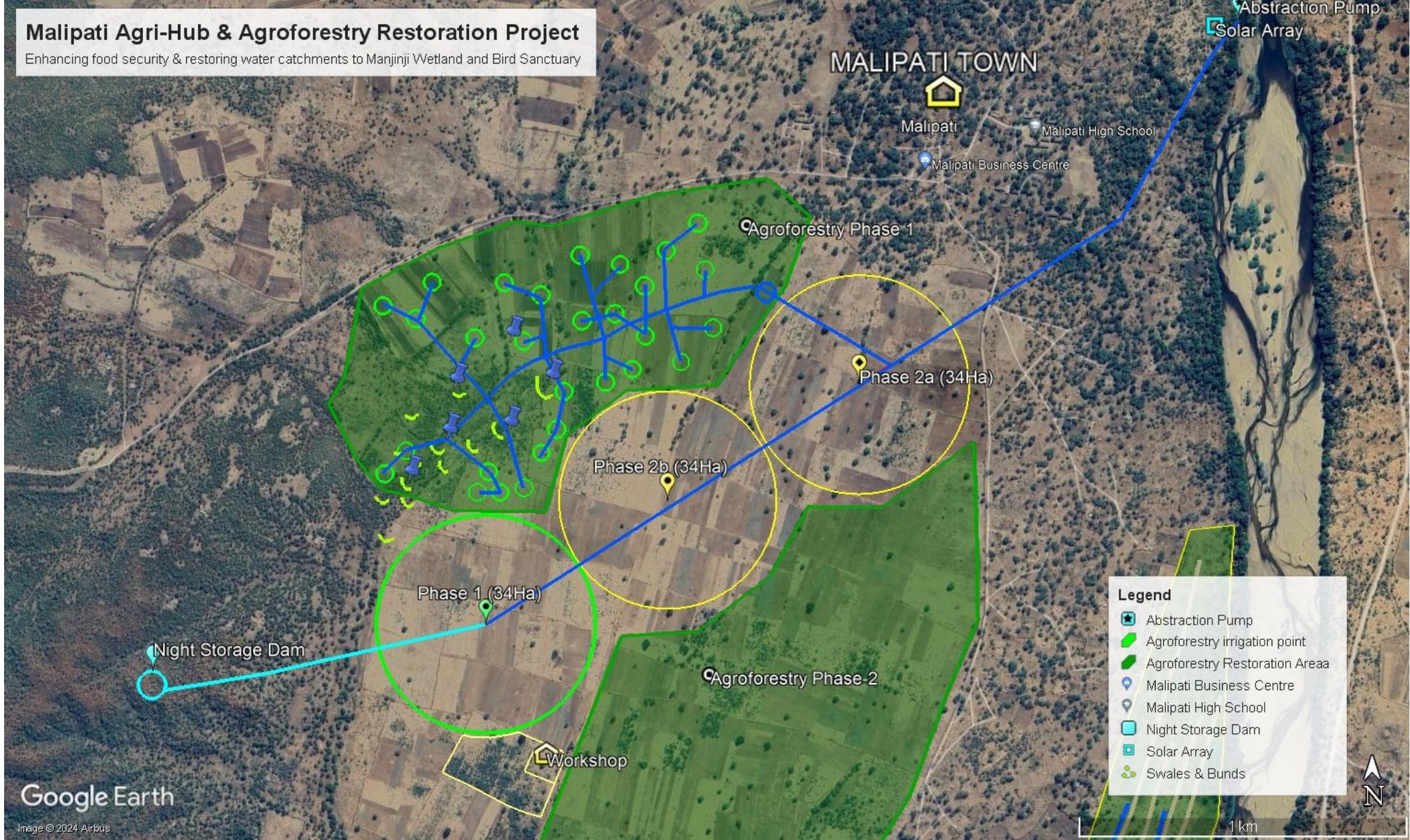
- employing principles of Agroecology, Permaculture, & Regenerative Agriculture
- to create functional productive ecosystems for humans and nature



Malipati Agri-Hub & Agroforestry Restoration Project

Enhancing food security & restoring water catchments to Manjinji Wetland and Bird Sanctuary

MALIPATI TOWN



Google Earth

Image © 2024 Airbus

- Legend**
- Abstraction Pump
 - Agroforestry irrigation point
 - Agroforestry Restoration Areaa
 - Malipati Business Centre
 - Malipati High School
 - Night Storage Dam
 - Solar Array
 - Swales & Bunds

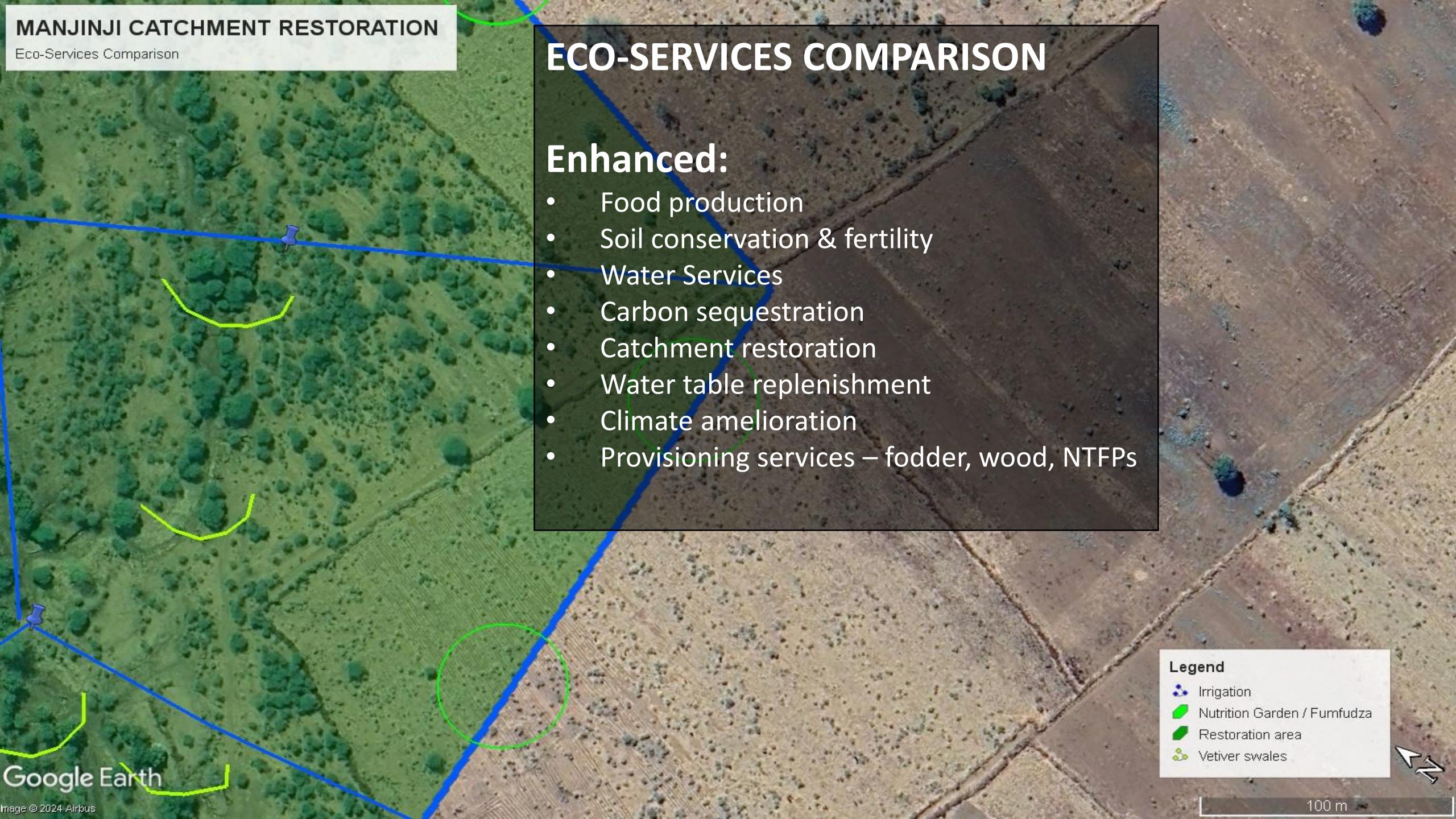
N

1 km

ECO-SERVICES COMPARISON

Enhanced:

- Food production
- Soil conservation & fertility
- Water Services
- Carbon sequestration
- Catchment restoration
- Water table replenishment
- Climate amelioration
- Provisioning services – fodder, wood, NTFPs



Legend

- Irrigation
- Nutrition Garden / Fumudza
- Restoration area
- Vetiver swales



Downstream Benefits

- Wetland restoration
- Bird sanctuary
- Water services
- Enhanced ecotourism
- RESILIENCE



Degraded river riparian & catchments

Mwenezi River, Malipati

Legend



Google Earth

Image © 2024 Airbus

N

400 m

Riparian Rehabilitation Pilot

Mwenezi River, Malipati

Legend

- Agroforestry rehabilitation plot
- Irrigated fumfudza & nutrition
- Solar Irrigation
- Swale



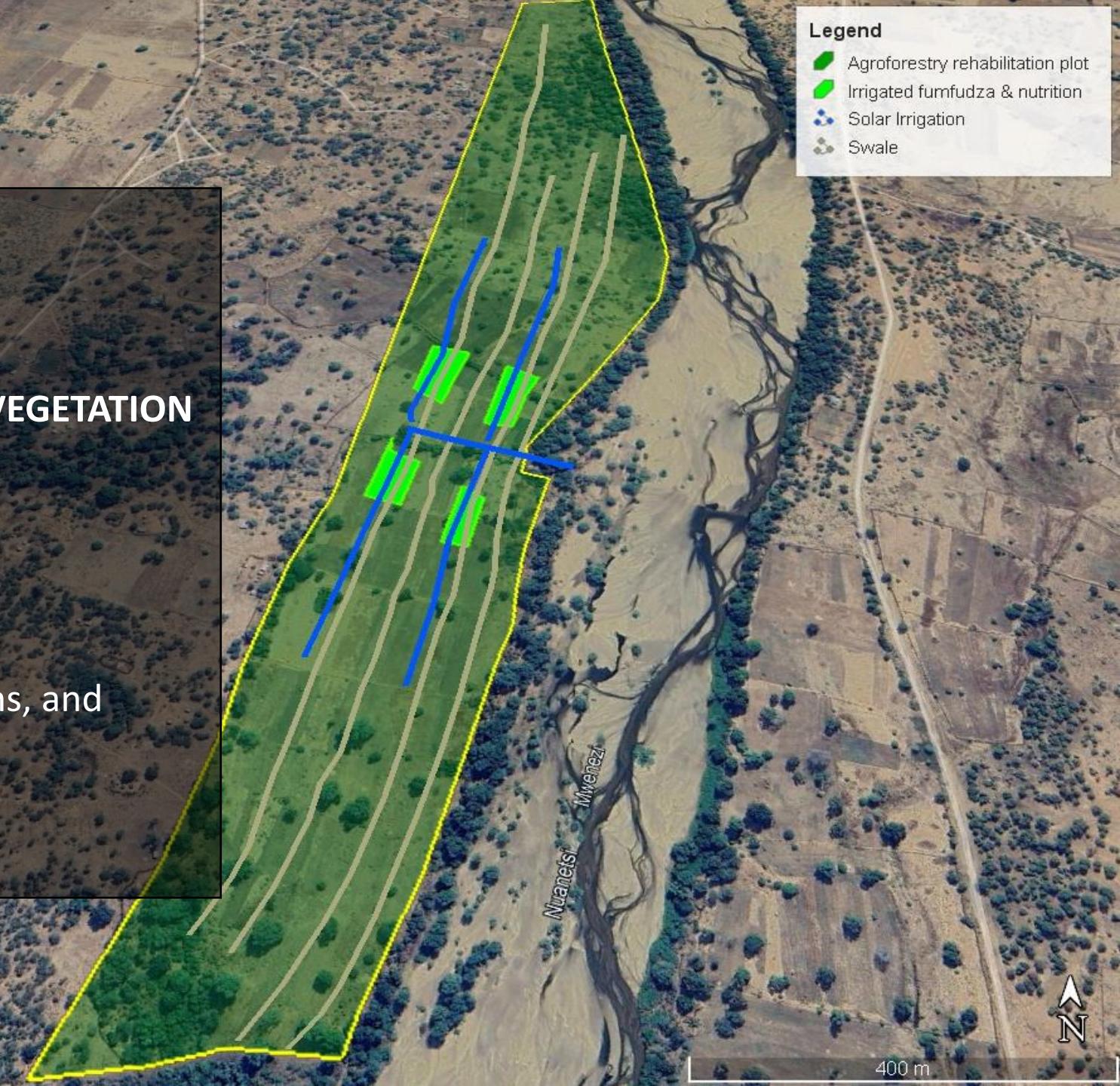
RIVER RESTORATION PILOT

PARTIALLY IRRIGATED ; PARTIALLY NATURAL REVEGETATION TO ESTABLISH "*WILD FOOD FOREST*"

- Feeding communities
- Restoring functional Riparian Woodland
- Preserving soil and fertility
- Preventing erosion and siltation
- Protecting rivers, water services, ecosystems, and communities

Google Earth

Image © 2024 Airbus





MANJINJI-BOSMAN'S COMMUNITY TOURISM PARTNERSHIP

MALILANGWE SOLAR PROJECT

2MW solar array, 1MW Li-Ion battery & 3km 33kva line



Generating financial return over 15 years
With 50% to CEDF for community
development and conservation...



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WOMEN'S GROUP & ORPHANAGE AQUAPONICS INVESTMENTS





EDUCATION SUPPORT

is critically important with high proportion of local schools reporting a **ZERO% pass rate & exceptionally high non-completion rate, especially for girls**



WILD Work-to-Rewards Program

- A practical route to diversify livelihoods, and de-risk climate change

STEP 1:

Women, youth, and community groups propose a sustainable micro-enterprise

SAT-WILD works with the group to develop a sustainable business plan



STEP 2:

Community Groups provide labour and develop skills in SAT-WILD Projects while earning money towards their start-up costs

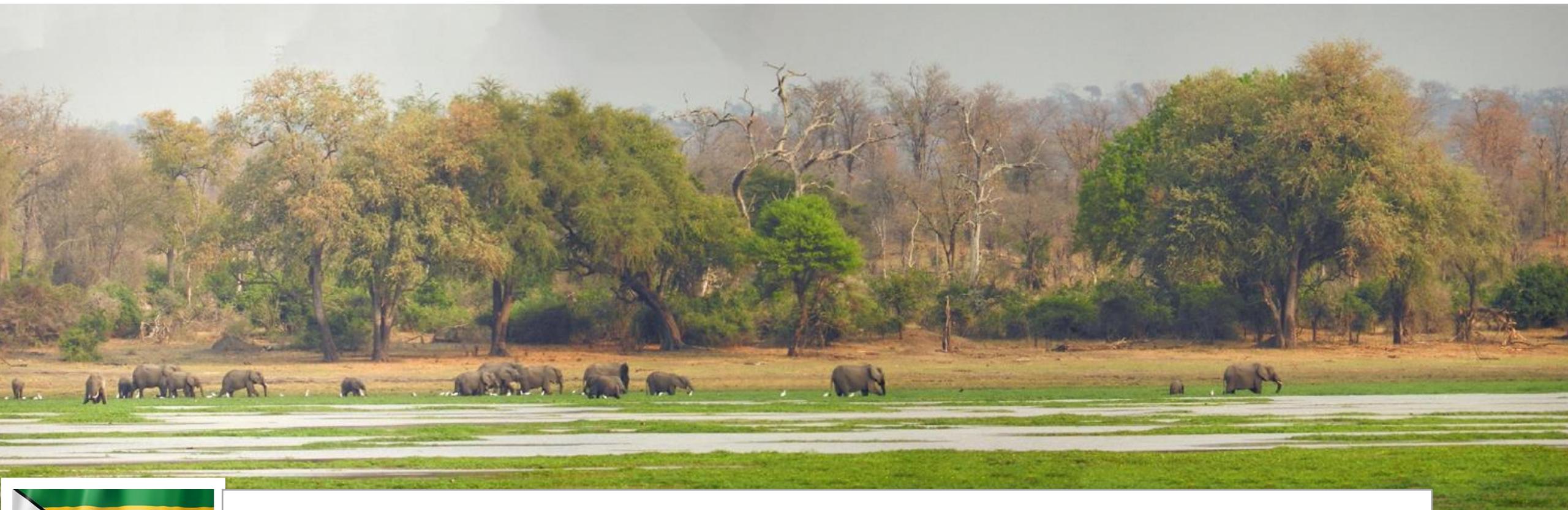


STEP 3:

SAT-WILD assists Community Groups to save, procure and start-up; provides ongoing mentorship and capacity building to run their enterprise



THANK YOU



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For more information visit: www.satzim.org



SAT WILDLIFE IN LIVELIHOOD DEVELOPMENT PROGRAMME

