



Please note, this event is being recorded

APPROACHES AND PRACTICES OF RESTORATION



ZOOM ETIQUETTE



Always join the meeting using your full name. For security purposes, unknown participants or those who join using numbers, initials or nicknames will henceforward be removed.



Mute your microphone every time you are not contributing.



For better bandwidth utilization, you may put off your video when not contributing.



Raise your hand when you want to speak



Ask questions or comment in the chatbox

Theme: Forest Landscape Restoration





KENYA FORESTRY RESEARCH INSTITUTE

KEFRIApp

The Tree Species to Site Matching Tool
for Ten Percent Tree Cover in Kenya

Jane Njuguna (PhD) and;
The KEFRI Innovation Team



Introduction to KEFRI

- Kenya Forestry Research Institute (KEFRI) is a state corporation established in 1986 under the Science and Technology ACT, Chapter 250 of the Law of Kenya, which has since been repealed to Science, Technology and Innovation Act 28 of 2013

Vision, Mission and Mandate and **Strategic Objectives**

- www.kefri.org

Key Strategic Objectives in the 6th KEFRI Strategic Plan



To generate and transfer forestry technologies for:

1. Production of **superior germplasm for priority tree species** for different agro-ecological zones through intensive breeding and management of pests and diseases to increase productivity.
 2. **Establishment and management of forest plantations**, trees on-farms and general landscapes
 3. **Rehabilitation and restoration of degraded forest landscapes**, woodlands, wetlands and riparian eco-systems for adaptation to climate change and sustainable livelihoods
 4. **Efficient processing and utilization** of wood and non-wood forest products to promote **circular economy**
 5. **Enhance corporate communication, technology transfer and partnerships**
-

KEFRI Innovations



Over 500 research products technologies and innovations instrumental to assisting the country achieve its national and global development agenda. These include;

- **High quality germplasm** to increase on-farm productivity and expansion of forestry programmes
 - **Integration and diversification** of trees, bamboo, grasses, shrubs for soil erosion control and increased crop production
 - Bioprospecting for **biochemicals, medicinal and herbal products** for improved citizen health and **dyes** for the textile industry, **food flavors, food, fruits and fiber** and **biomass energy**,
 - **Right species mix** for optimum Carbon sequestration for mitigation of climate change.
 - **Innovative digital products such as KEFRIApp** to track progress of ten percent (10%) tree cover by 2022 and;
 - **Piloting aerial seeding** assisting the country meet its international commitments of restoring 5.1 million hectares of degraded lands by 2030.
-



Professional Guide to Tree Growing in Your Hand

Why Develop the App?



➤ ***Projects come and go:*** Many tree planting activities have been undertaken in the country costing billions of shillings with no data of their achievements on trees planted on public and private land and also data on survival is lacking;

➤ *Publications??*

➤ Investors (processors) are therefore not sure of where to establish investments especially near farmlands; (high transport costs leads to low cost for forest produce)

➤ No data on how many trees are felled every year and for what purposes to update contribution to GDP

➤ Many complaints of poor survival and mortality of trees due to wrong choices of tree species in various sites

➤ To achieve the National Strategy for achieving and maintaining 10% tree cover by 2022 identified the need for **innovative products to track progress** of the same

The KEFRIApp



- KEFRIApp is a mobile platform that seeks to guide tree growing using **species site matching** to enhance establishment and survival potential.
 - Takes in to account the conditions optimal growth or conversely optimal conditions for disease /mortality to occur as explained in the “The Disease Triangle”
-

The Disease Triangle (Trapezium)

The case for species site matching

- Host + Pathogen + Environment =?
- An imbalance of any component results in underperformance of the others
- Interferences by man on any component affects the others positively or negatively

1. Host (Biology and type)

2. Pathogen: Biology & type

Space

Time

4. Human Interference

Optimal conditions
Causes Disease

3. Environment: Temperature, Rain, Site, Wind, Soil factors

KEFRI APP- Objectives

- **To provide** science based information to enhance success of the **many greening activities by stakeholders** in forest based enterprises and initiatives in forest management and landscape restoration to promote resilient tree growing across the country.
- Enable Government Institutions, private companies and individuals to **document tree planting** activities over time,
- **Monitor survival** of planted trees to inform investors and;
- Provide professional guide on tree planting/management for various purposes by linking with:
 - *m-Forester* and
 - IPM modules
 - Commercial tree species selection for different areas

KEFRI APP- Other Objectives



- Initially to track the progress towards the achievement of the 10% tree cover by 2022,
- When fully implemented it will provide big data on total number of trees in planted in the country, disaggregated by species, age, County /region etc
- User friendly application for use by tree growers just like the MPESA

Together with the use of drone technology in forest monitoring, KEFRI envisions that it is possible to calculate the number of trees growing in Kenya at any given moment

And redefine “Tree Cover and Forest Cover”

Current Features of the KEFRIAPP



1. Phone module and Web-based module
2. A dashboard with menu of functions/tools:
3. Species to site matching (up-to sub-location level)
4. Documenting new planting activities and national tally of planted trees in real time and also cut trees
5. Documenting a previous planting activity and also cut trees over time
6. Map view of all documented tree planting activities
(*Photos not downloadable, must be a real activity!*)
7. Web-based version with capability for detailed analytics
8. To include registered and certified tree nurseries in various locations and tree species available
 - a. Connecting tree growers with local tree nurseries (e-commerce for forestry)

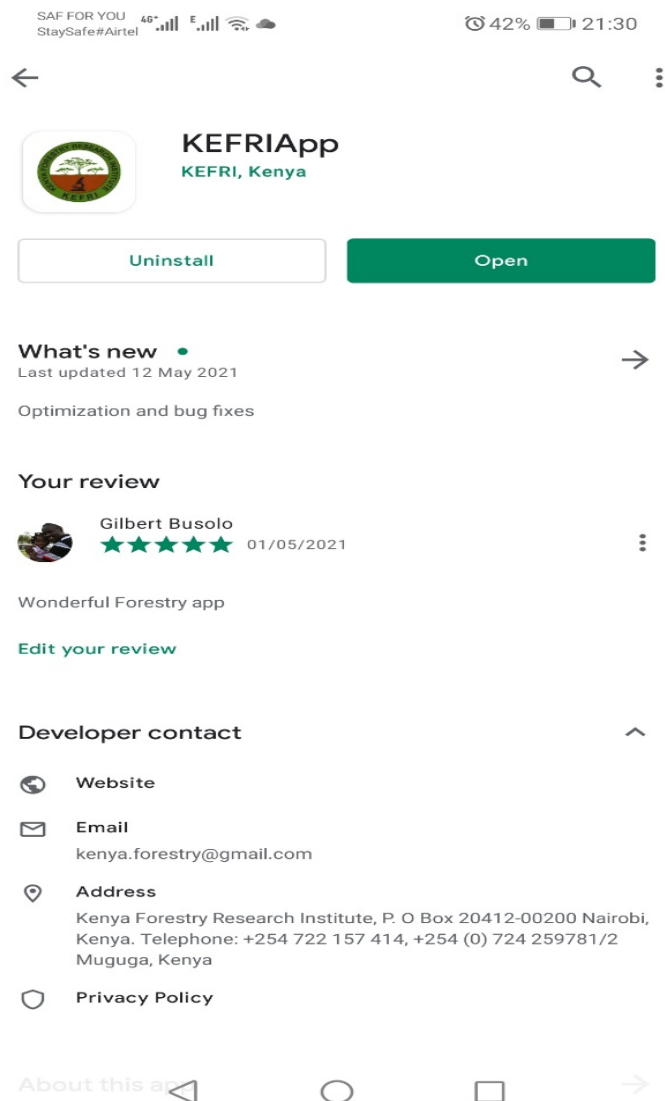
Who Can Use –The App



- Public institutions (Ministries, State Agencies in both levels of Government);
- NGOs (Local and International)
- Development partners
- Private companies
- Community groups
- Tree nursery owners
- **Individuals** (hopes to capture this main group of tree growers who are not usually captured)



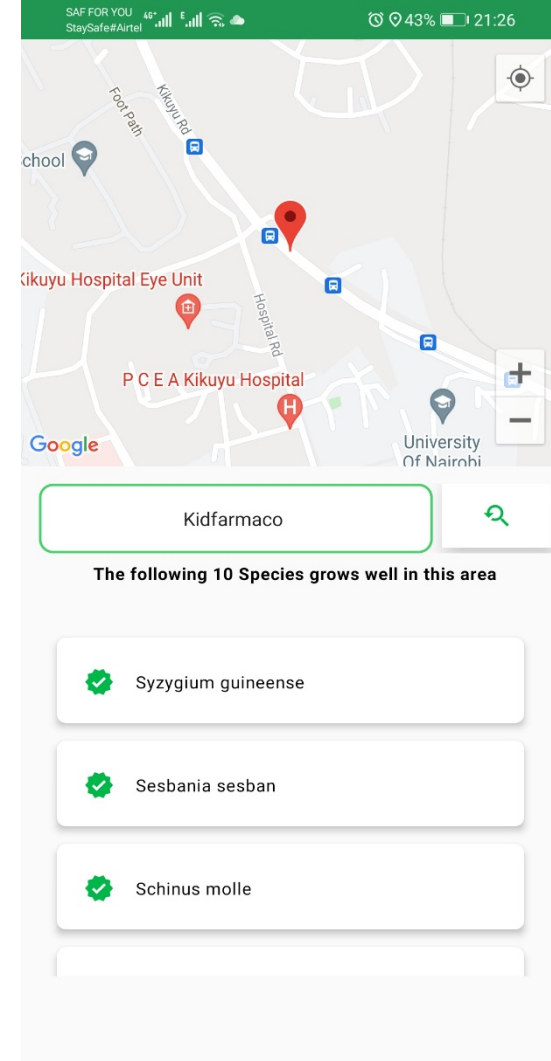
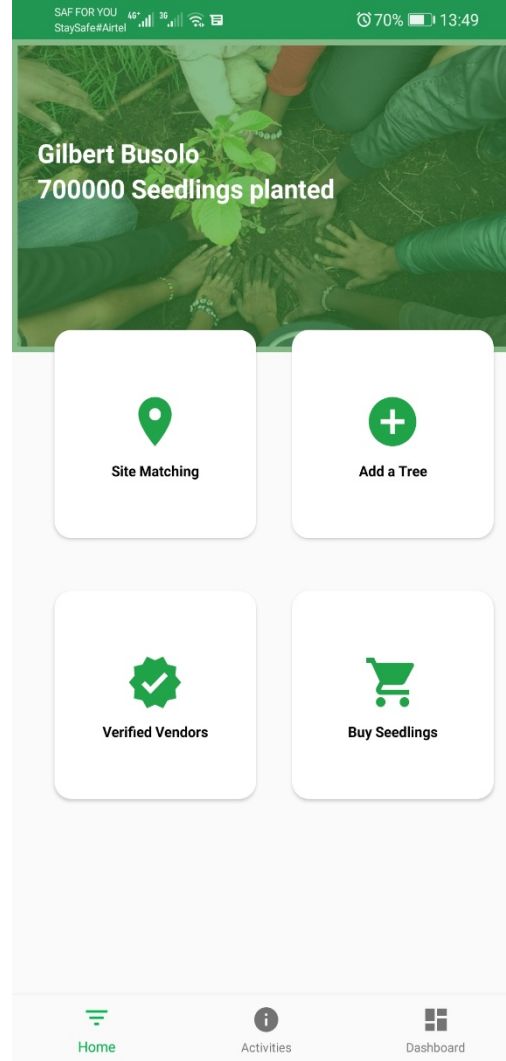
How to get Access to KEFRIApp

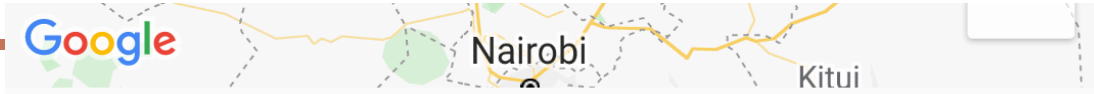



Steps:

- *Using Android Phone-Go to Google play store. Apple version on the way*
- Download the KEFRI App
- Register
- Login
- Bravo!! Use the App
- *Note. Ensure that your phone's location service is enabled for best results*

KEFRIApp



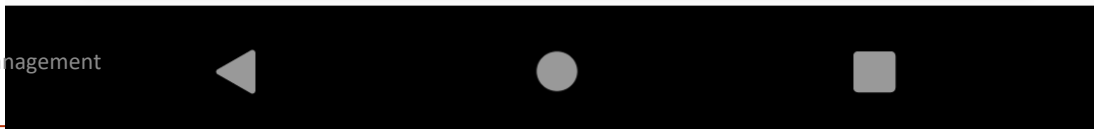


Type Location 

The following 8 Species grows well in this area

(Common name)

- Eucalyptus saligna; English (Sydney blue gum, saligna gum, blue gum), Swahili (muringamu, mtimbao, mkaratusi), Trade name (Sydney blue gum)
- Eucalyptus grandis; flooded gum/ rose gum (Eng), musanduku (kamba), Muringamu (Kik)



KEFRIApp



SAF FOR YOU 4G+ StaySafe#Airtel 43% 21:26

DOCUMENT AN ACTIVITY

☐ New ☐ Previous

Select County ▾


Location

Organization name/your name

Number of Seedlings planted

Species quantity

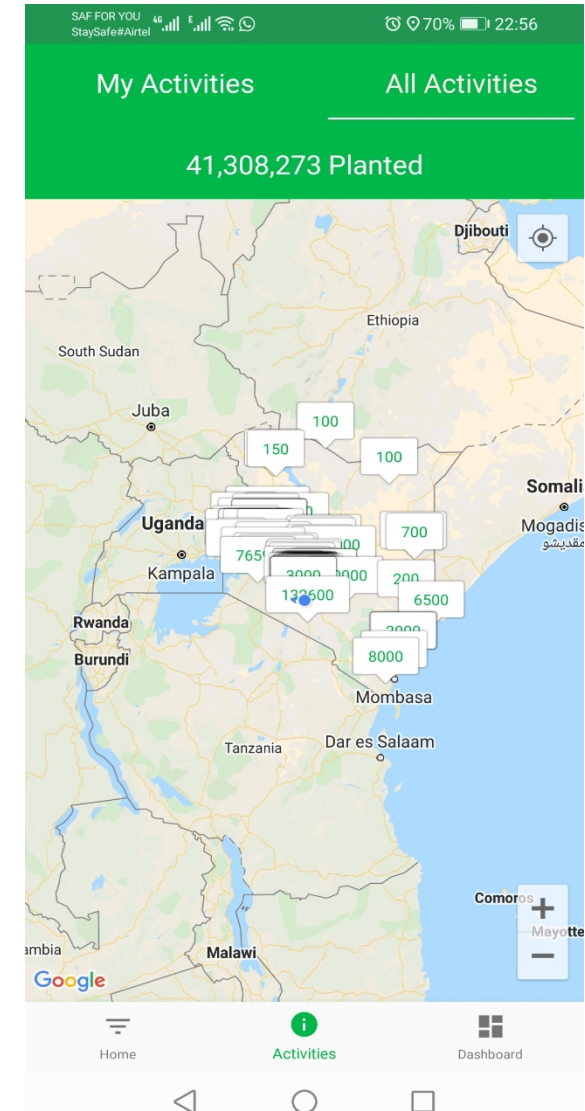
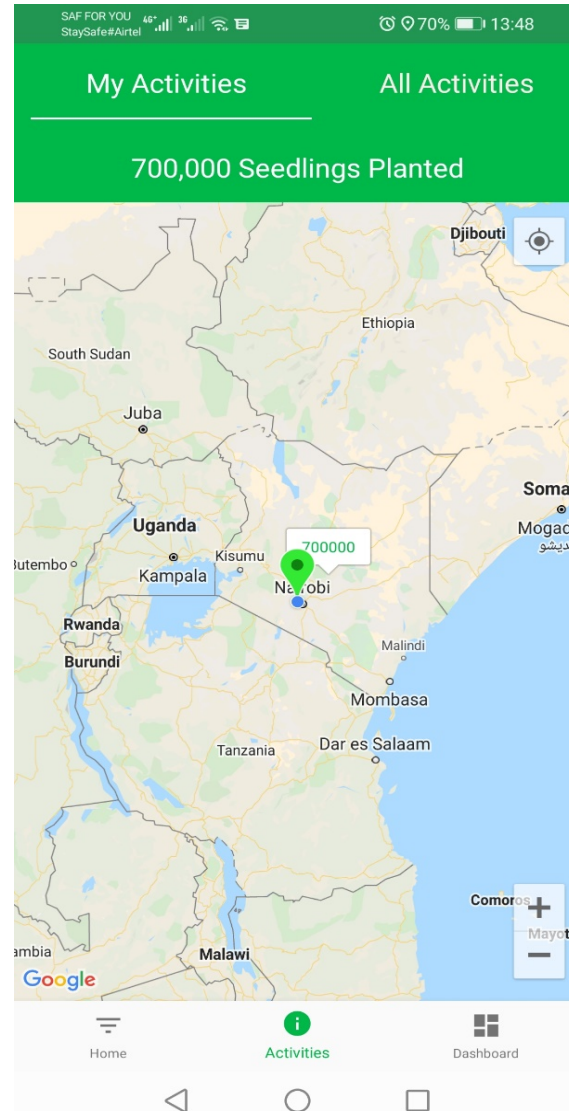
Coordinates will be picked automatically



DOCUMENT

Please indicate if it's a new or Previously done documentation

Home Activities Dashboard



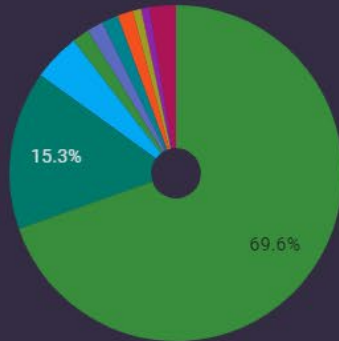
Tree Planting Activities

Select date range

County

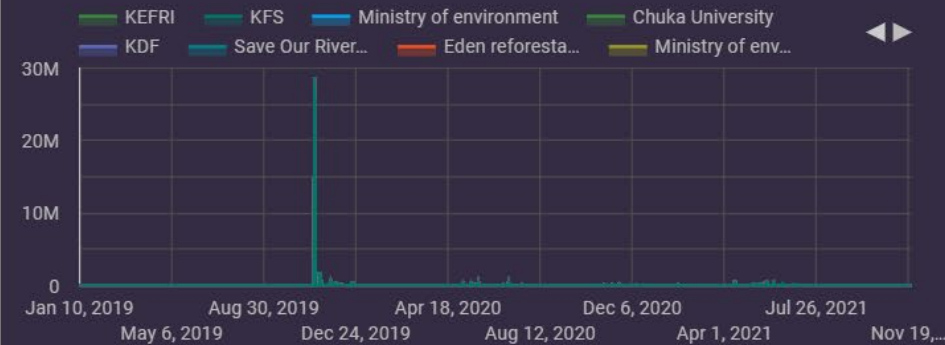
Organisation

Organizations



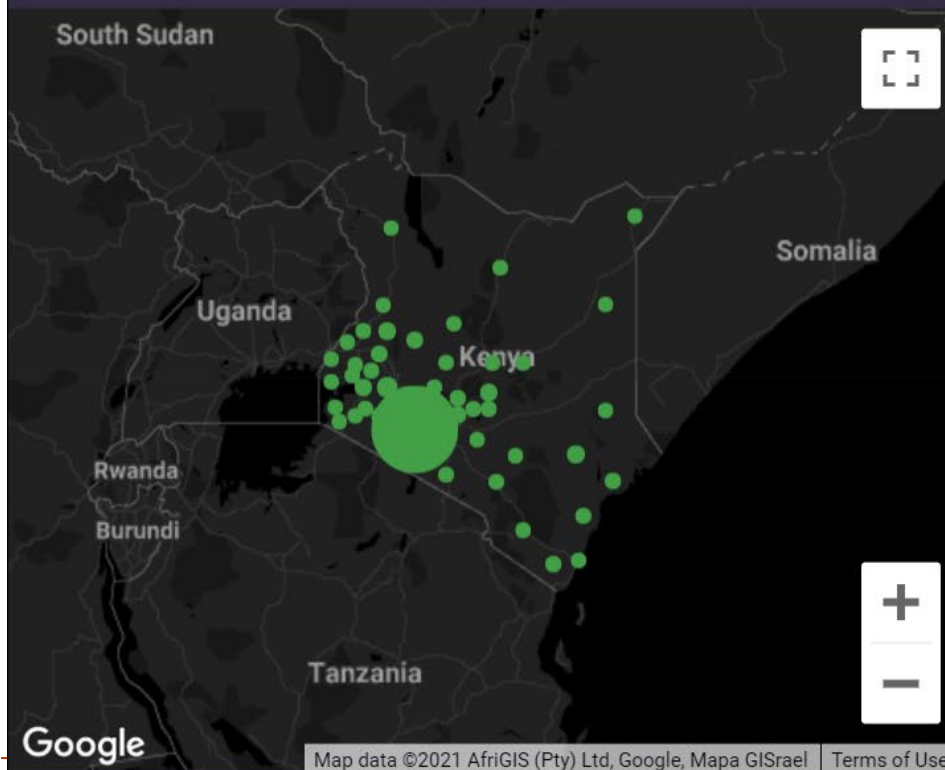
- KEFRI
- KFS
- Ministry of environment
- Chuka University
- KDF
- Save Our Rivers Initiative
- Eden reforestation team
- Ministry of environment and forestry
- Eden Reforestation Project
- others

Tree planting trend



Seedlings planted
41,951,674

Verified
No data

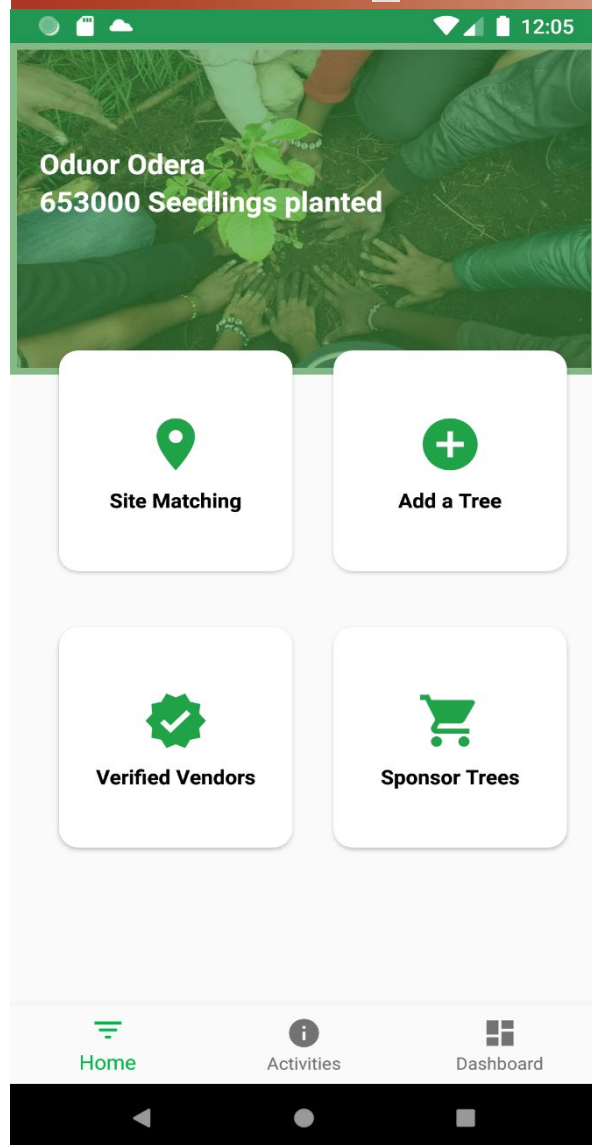


	County	Seedlings planted ▾
1.	Narok	29,447,848
2.	Kericho	2,135,183
3.	Tana River	1,055,762
4.	Elgeyo Marakwet	921,780
5.	Tharaka Nithi	847,528
6.	Kisumu	766,755
7.	Murang'a	655,207
8.	Baringo	558,984
9.	Uasin Gishu	495,547
10.	Nyeri	397,707
11.	Lamu	387,958
12.	Kwale	360,949
13.	Kiambu	300,749
14.	Embu	286,905
15.	Nakuru	263,774

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KEFRIApp Sponsor a Tree



New feature
that onboards
you as our
partner towards
10% tree cover

653000 Seedlings planted

ENTER DETAILS TO PROCEED

☐ Organization ☐ Individual

Organization name

Your organization phone number

How many trees would you like to

Your organization email

REQUEST



KEFRIApp Roll Out

- Create awareness and train tree growers on how to use the KEFRIApp
 - Provide periodic data updates towards attainment of 10% tree cover
 - Partner with County Governments and other Institutions for enhanced KEFRIApp awareness, uptake and utilization
 - Strengthen Monitoring and Evaluation Component – Survival rate
 - Will be reviewed from time to time
 - **Open to integrating** with other Apps for wholistic data capture in the country
-

Acknowledgement

- Cabinet Secretary Hon. Keriako Tobiko and Principal Secretary, Dr. Chris Kiptoo, Ministry of Forestry and Forestry for
 - Spearheading the development and implementation of the National Strategy for Achieving and Maintaining 10% Forest Cover by 2022
 - Continuously supporting the development of innovations in forestry and environment for socio-economic development
- State Agencies in the Ministry, KFS, KWTa, NEMA, NECC, Environment Tribunal and NETFUND, KMD and the Ministry Departments for supporting and adopting technologies
- Kenya Government through The National Treasury for funding 10% Tree Cover activities
- You for installing KEFRIApp and helping to track tree growing and restoration activities in the country
- Conference organizers for accepting this presentation

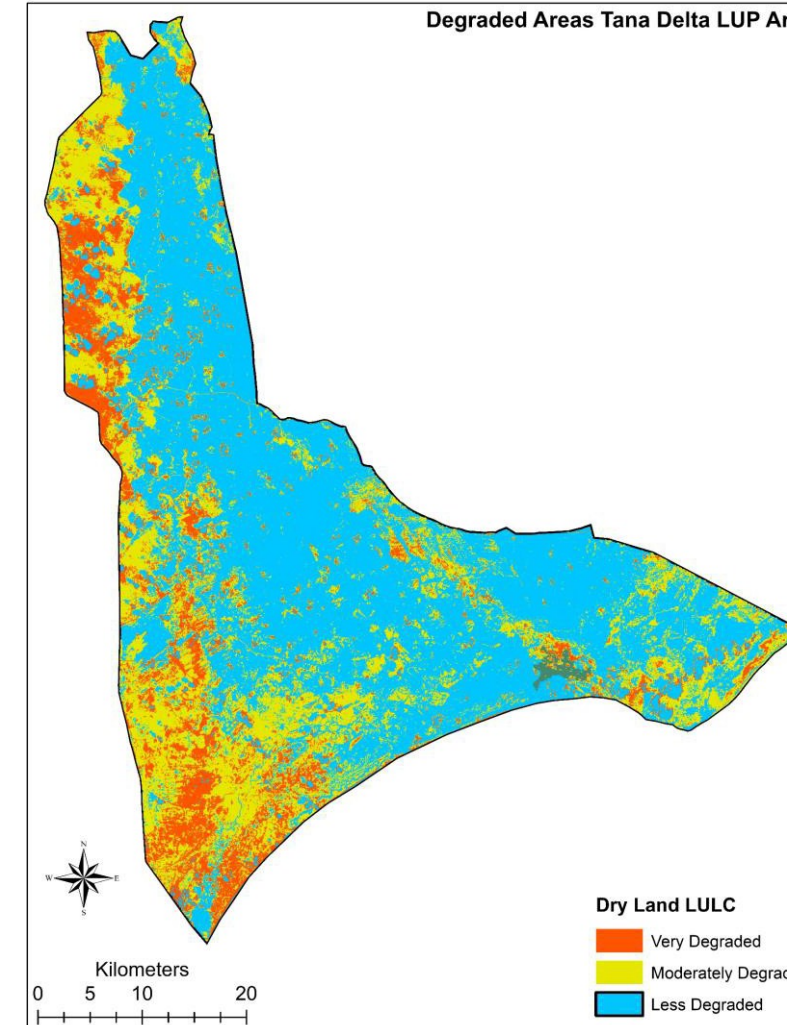
Case study of the restoration of the Tana Delta

Presenter: Rudolf Makhanu, Nature Kenya



Catalyzing Landscape Restoration at County Level-Case of Tana River and Lamu County

1. Tana River Delta Strategic Environmental Assessment
2. Tana River Delta Land Use Plan
3. Ecosystem Services Assessment
4. Restoration Opportunity Assessment and Mapping
5. Mainstreaming landscape restoration into county policy frameworks-Providing practical actions and county targets by integration of restoration into county planning processes



Building Capacity of Institutions

1. Setting up and building capacity of WRUAs and CFAs who would set up tree nurseries,
2. Village Natural Resource Committees— carrying out village level restoration action plan-



Sustainability of Forest and Landscape Restoration

1. Green Industrial Park concept-aimed at achieving and delivering green value chains while
2. Mainstreaming Restoration into Other Sectors of the Economy-Climate Smart Agriculture; Indigenous Community Conservation Area
3. Innovative Financing- Green Climate Fund, Carbon Financing



Work Supported By



Food and Agriculture
Organization of the
United Nations



Forest Landscape Restoration (FLR) in East Africa – political framework and pilot measures for the successful implementation of FLR strategies project

Presenter: Kiunga Kareko,
WWF-Kenya Forest Programme Manager



Project Details

Duration: Five years (2021-2024)

Budget: KSh 131M

Donor: German Federal Ministry of Economic Cooperation and Development (BMZ) through its BENGGO-Climate funding facility

Implementers: WWF Kenya & the National Alliance of Community Forest Associations (NACOFA)

Background

- Responding to negative ecological and economic implications faced by large areas of East and Southeast Africa due to extensive deforestation.
- The key shared objective: To **prevent further deforestation and restore the functionality and connectivity of degraded forest landscapes** (Forest Landscape Restoration, FLR)
- The 3 countries (Kenya, Tanzania & Zambia) are now committed to the objectives of the **Bonn Challenge** (<https://www.bonnchallenge.org/about>; 2011, 350M ha by 2030, total pledge 74 countries, 31 in Africa), **AFR100 Initiative** (<https://afr100.org/>; 2015, 100M ha by 2030; total pledge 31 countries, 126M ha (December 2020); “**New York Declaration on Forests**” (2014; 200 endorsers; end natural forest loss by 2030, and **Sustainable Development Goal 15** (Sustainably manage forests, combat desertification, halt and reverse land degradation, halt biodiversity loss).
- The key objective of these international initiatives is to globally restore 350 million hectares of forest landscapes including at least 100 million hectares in Africa.
- To be achieved through **creating powerful national strategies** with both legal and political planning frameworks within the region.

General overview

Outcome

Livelihoods of 4 communities in Kenya are improved through model FLR activities, leading to an increase of income from **sustainable agriculture and forest production of at least 20%**. National forest landscape restoration policy frameworks securing ecosystem services, resource availability and benefit sharing mechanisms are strengthened by an active political participation of civil society actors

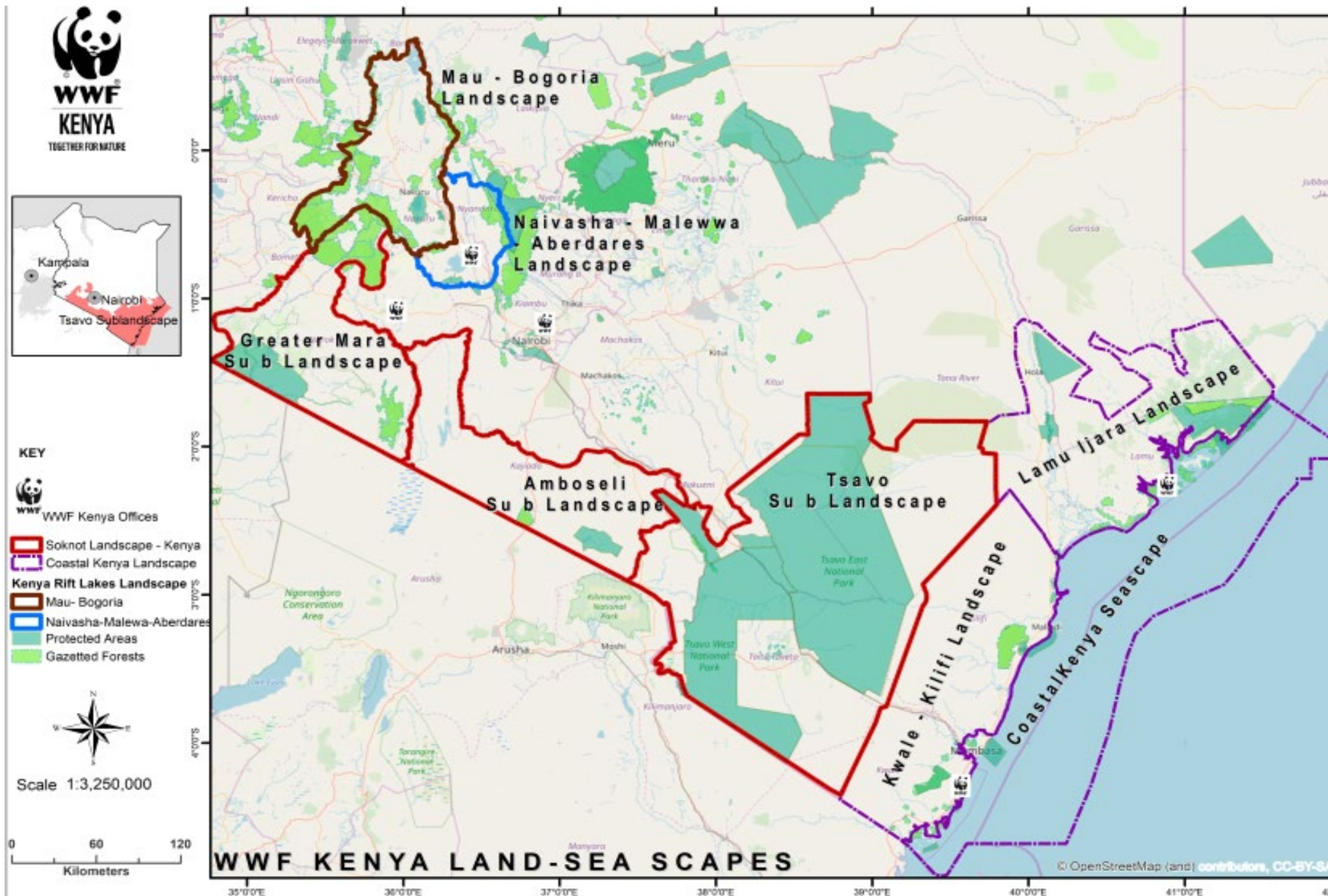
1. The development of **national policies for FLR** in Kenya is supported, thus securing the base for a successful implementation of the pledged AFR100 contributions. The participative policy improvement secures future benefits and sustainable resource management for communities and small holders.

2. **FLR business model** on sustainable production of products from forest landscapes is implemented and leads to increased income for **min. 400 beneficiaries in 4 communities** in the selected landscape.

3. In the Kenyan forest model landscapes, **key areas are restored** and sustainably contributing to an increased harvest/yield of timber, NTFPs and conservation agriculture products (quality/quantity).

4. By 2024, **improved exchange** between partners enables **scaling of project's good practices** – including incorporation of social safeguards – on national and international level.

WWF-Kenya Landscapes and seascapes (2020-2030)



FLR in Naivasha: Specific Objective

To improve agriculture and forest production systems of forest communities in Nyandarua County through enhanced political framework and successful implementation of FLR strategies.

FLR in Naivasha: Scope & Targets

Joint Efforts & Scope

- Three (3) Community Forest Associations (CFAs): Geta, North Kanangop & Aberdare Kiburu
- Three Water Resource Users Associations (WRUAs): Mkungi Kitiri, Upper Turasha Kinja and Wanjohi
- Kenya Forest Service
- Nyandarua County Government

Restore

500 ha of Bamboo and mixed forest in the gazetted forest

40 km of riparian land mostly on farmlands

100 ha of deforested or degraded farmlands.

“Sustainably managed by the communities through an effective business model for bamboo and agroforestry benefiting communities”

OUTPUTS

1.1: FLR implementation in Kenya is supported by effective policies, strategies, legislations and guidelines and enhancing the development and implication of the target groups

1.2: A national civil society FLR Alliance is strengthened and informing policy making processes

1.3: A FLR strategy for Nyandarua county is in place

2.1: Income from forestry and agriculture value chains is increased by 20% for at least 400 community members in Nyandarua

2.2: Target communities have reliable access to markets and value-addition facilities for forestry and agricultural products

3.1: 500 ha Bamboo and mixed forest and 100 ha of degraded farmland are restored and sustainably managed by the communities through i.e. an effective business model benefiting communities

OUTPUTS Cont.

3.2: 40km stretches of riparian area are restored

4.1: Successful FLR initiatives are documented, published and presented for upscaling and replication outside the project area on national/regional and international level

4.2: Environmental and social safeguards and standards for Participative Forest Management (PFM) are incorporated in WWF-supported programmes and adapted to local conditions



WWF®

together possible™

Mangrove Ecosystems Restoration.

Community Based Initiatives.



Derrick Muyodi.

CEO, Ceriops Environmental
Research Organization.

www.ceriops.org

12, July 2021.



Content

- 1 Introduction: Who we are.
- 2 Mangroves Ecosystems: Importance & Threats
- 3 Mangroves Restoration: Project Adopt A Site.
- 4 Program Impacts Assessment
- 5 Monitoring Technology: Project Treestand.



Ceriops Pillars

Vision Statement

To promote integrated coastal zone management while conserving natural ecosystems in the **East African Coastal Region**.

Mission

To restore degraded coastal ecosystems with **local communities** while exploring additional **livelihoods** from **coastal & marine resources**.

Core Values

Quality Delivery | Teamwork | Respect | Integrity.



About Us

What we do.

A canopy non profit network of environmental management experts with focus on integrated natural ecosystems research & development programs with direct impact to local communities.

Our expertise include;

- Mangrove Ecosystems Restoration & Livelihoods.
- Forestry Research & Technology Innovations.
- Community Seaweed Farming
- Marine Litter Research
- Experimental models for sustainable Agriculture.

We also develop data systems for commercial environmental programs; Forestry, Agriculture, Spatial planning, Urban planning & Waste Management.

Website: www.ceriops.org
Mail: info@ceriops.org. Contact: (+254)718171308



Tropical Mangroves Ecosystems



ECOSYSTEM SERVICES

The benefits people derive from mangroves



Wood

Its density makes mangrove wood a valued source of **timber and fuel**



Livelihoods

120 million people living near mangroves¹



Mangrove ecosystem services

Worth US\$ 33,000–57,000 per hectare per year¹
x 14 million hectares²
= up to **US\$ 800 billion** per year



Climate regulation

Carbon storage potential of mangroves is **3–5x higher than that of tropical upland forest** due to strong carbon storage in the soil³; CO₂ released by global mangrove loss annually could be as high as the annual emissions of Australia⁴⁻⁵



Coastal protection

Restoring mangroves for coastal defence up to **5 times more** cost-effective than “grey infrastructure” such as breakwaters⁹



Water filtration

2–5 hectares of mangroves may treat the effluents of **1 hectare** of aquaculture⁸



Tourism

There are over **2,000** mangrove-related attractions globally, such as boat tours, boardwalks, kayaking and fishing⁷



Fisheries

More than **3000 fish species** are found in mangrove ecosystems⁶



Mangroves Threats & Need for Urgent Action.

Drivers

Rapid Urban Development

Demand for wood & poles

Mining for minerals

Illegal logging

Conflicts with Conservators

Massive urban pollution

Rapid industrialization

Growing residential estates

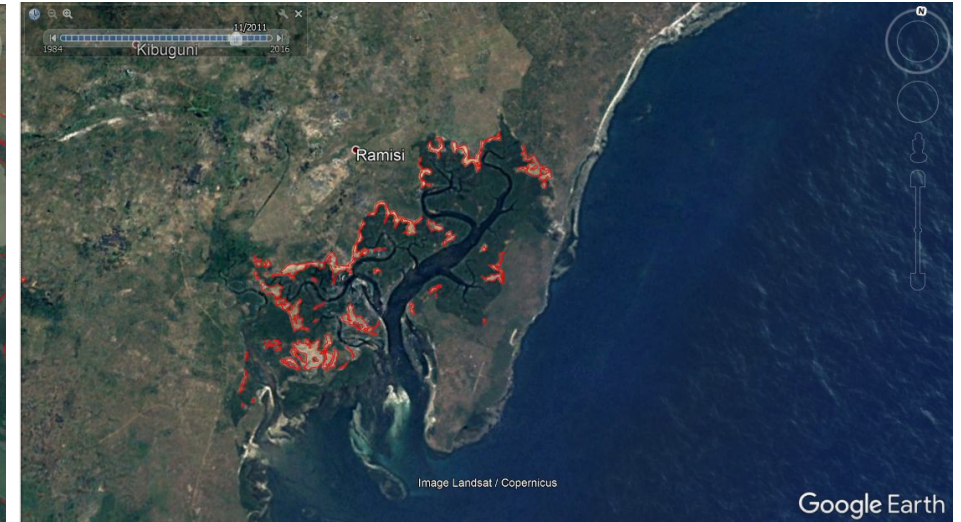
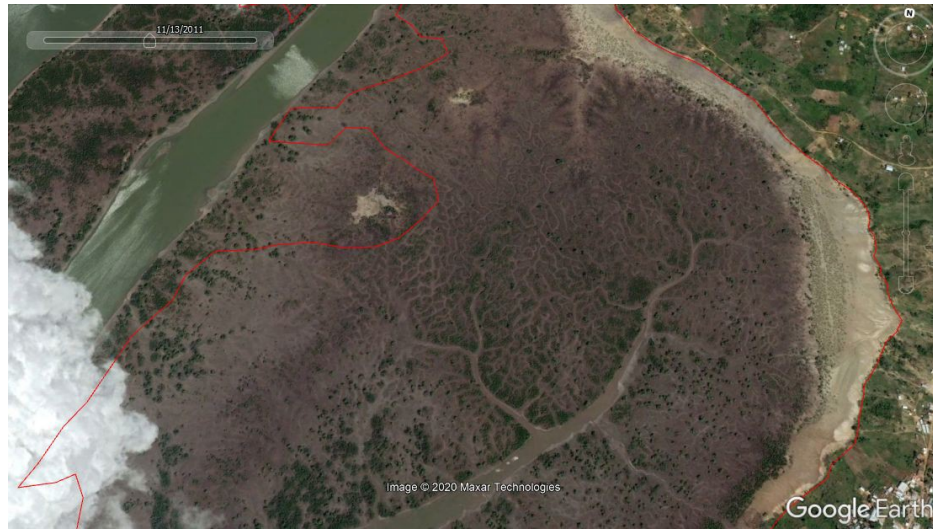
Result



Degraded areas (Google Earth View.)

Satellite Earth observation of the Mangroves Ecosystem

- Sections of the project area.
- Mapped polygons.



Snapshot: Ground Imaging.

Mombasa

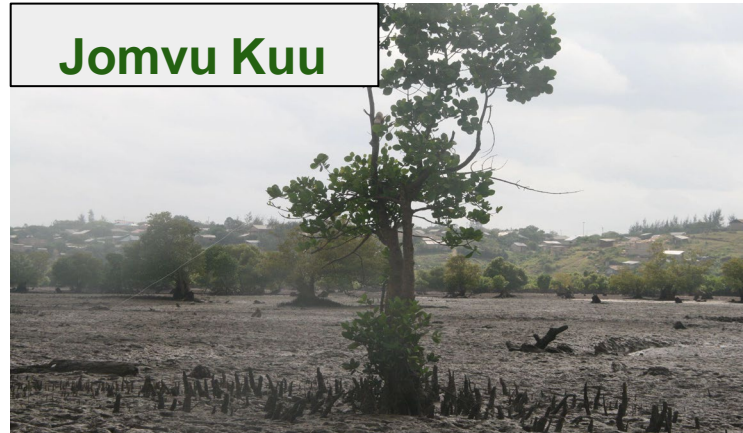
Mombasa

Kwale

Junda



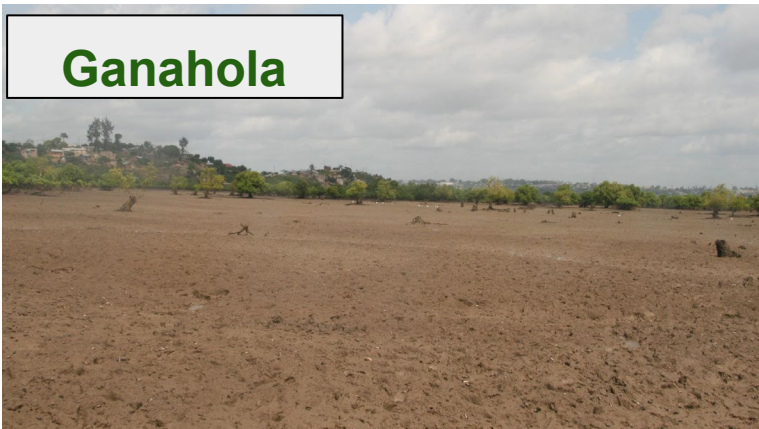
Jomvu Kuu



Mwazaro



Ganahola



Mwakirunge



Majoreni



Suitability Classification.

CLASS 1: Regenerating



CLASS 2: Sedimented



CLASS 3: Degraded



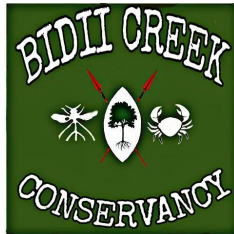
Tudor Creek CBOs:

Project Adopt A Site

1. Big Ship



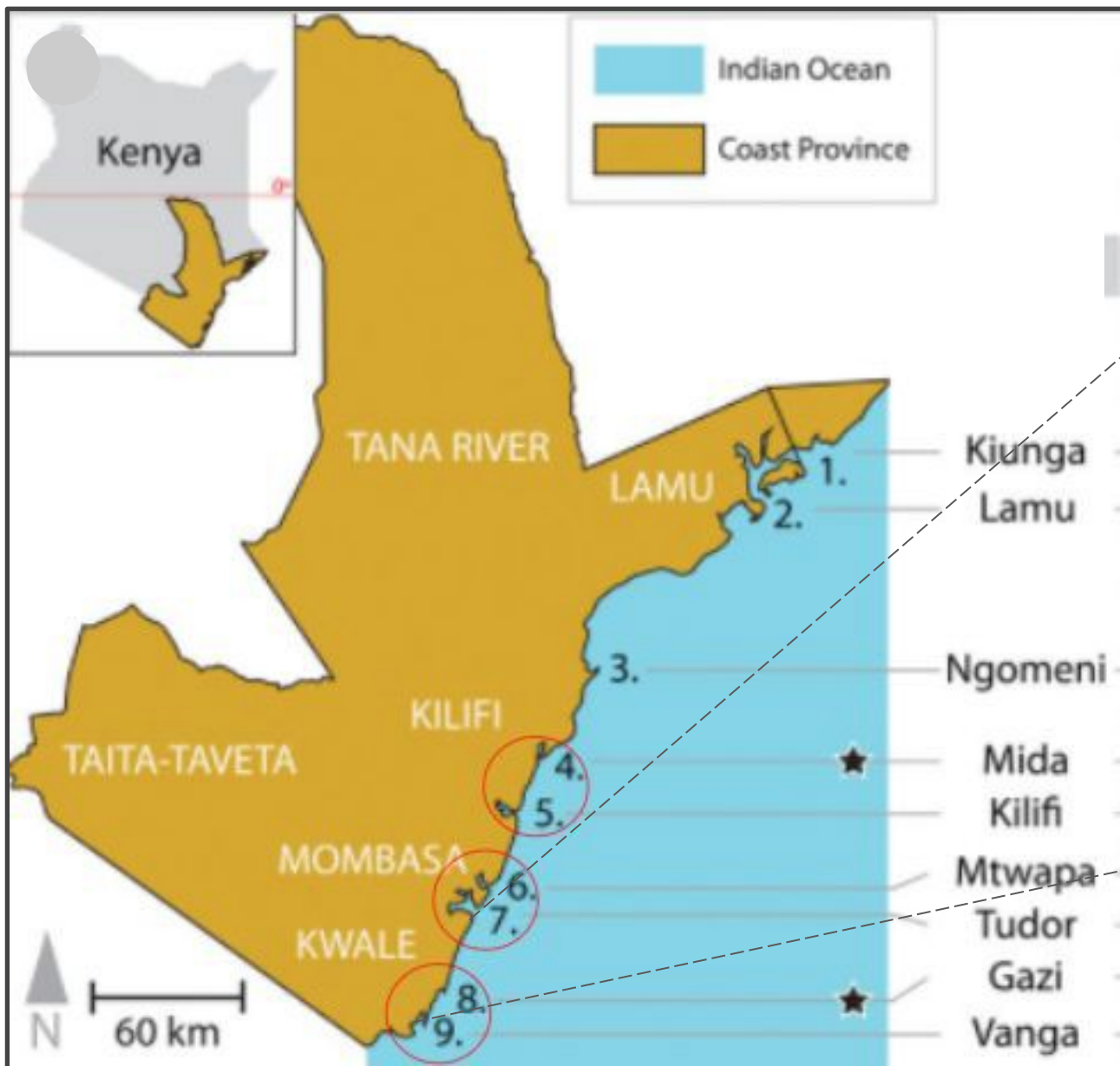
2. Bidii Creek



3. Amani Jipange



Project Location.



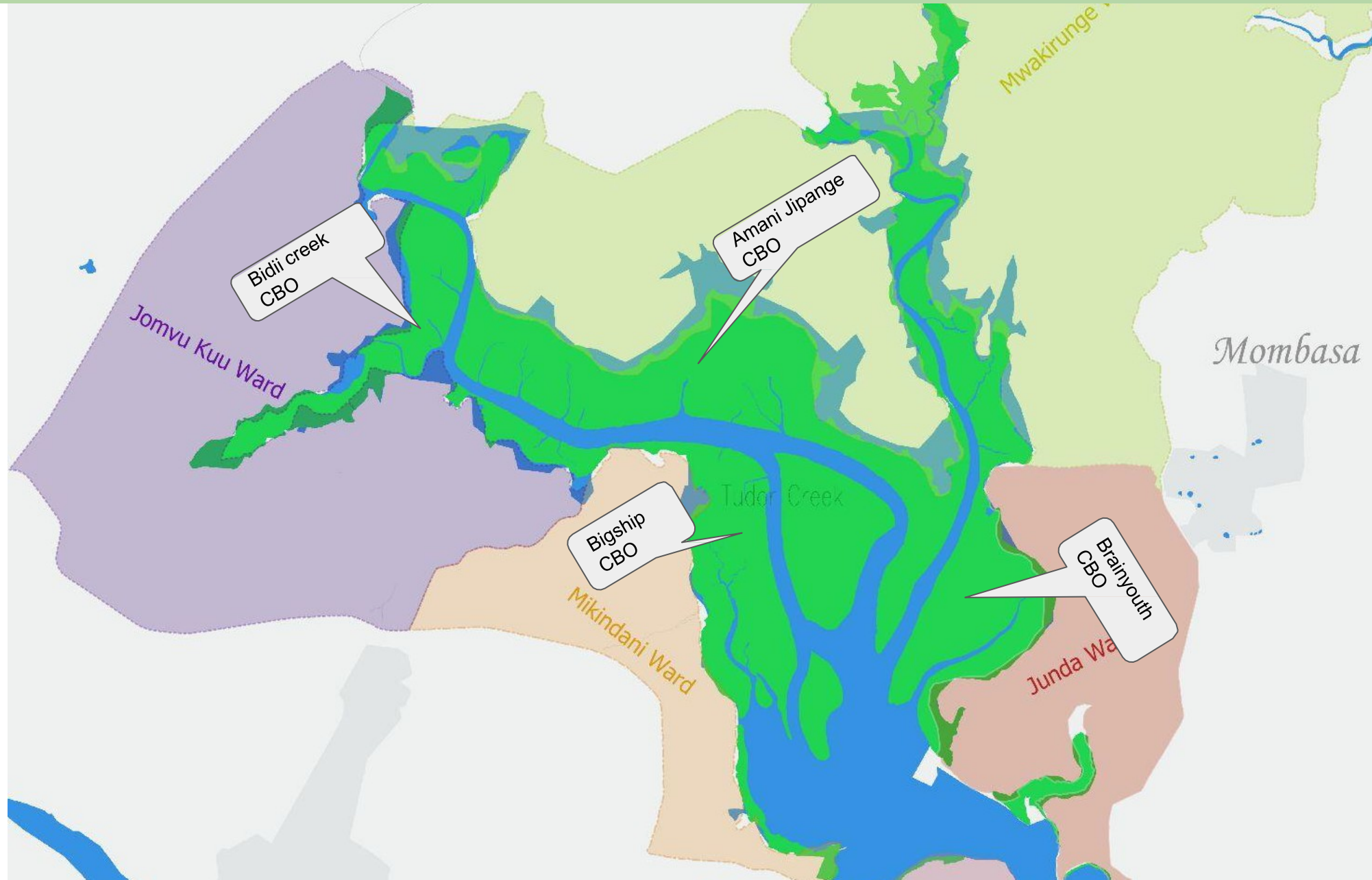
Mombasa: 1000 Ha



Kwale: 1500 Ha



Snapshot: Map Imaging.



Adopt A Site: Project Model

Needs to be Addressed



- ✓ Corporate Social Obligations Will be met.
- ✓ Concrete technical report of the Adopt-A-Site to the Stakeholder.
- ✓ Increased Forest Cover of Mangroves in the selected area.
- ✓ Empowered Mangrove community hence Poverty Alleviation.

OBJECTIVES

Mangrove Planting (500 +seedlings).

- Entails buying of seedlings and participating in the planting exercise (planting with the community).

1st 6 Months

Provide Nature Based Community Livelihood Project

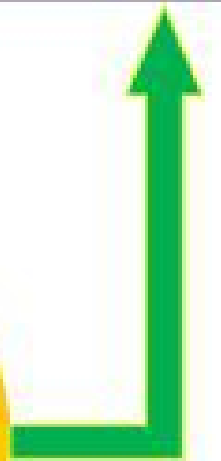
- ❑ Entails supporting crab farming, ecotourism and bee keeping (mangrove honey production)

Next 6 Months

Participate in Monitoring of the outlaid activities

- ◆ Support the community groups (beneficiaries) in sustainability of the livelihood projects through capacity building.

Subsequent Years



Tudor Creek Mangrove area: Mombasa, Kenya.

Case Study: Tudor Creek Mombasa

Concept Test: Mombasa

- Project: Adopt A site.
- Start Year: 2018.
- Community: Ganahola.
- CBO: Big Ship CBO.
- CFA: MOKICFA



Communities Based Restoration (CBR)

Community & stakeholders participation

- Youth groups
- Women groups
- Intercommunity groups
- Learning Institutions
- Social groups



PROGRAM IMPACTS

Planted
200+ HA

Mapped:
2000+ Ha

CSR:
50+ org.

Community
7 groups

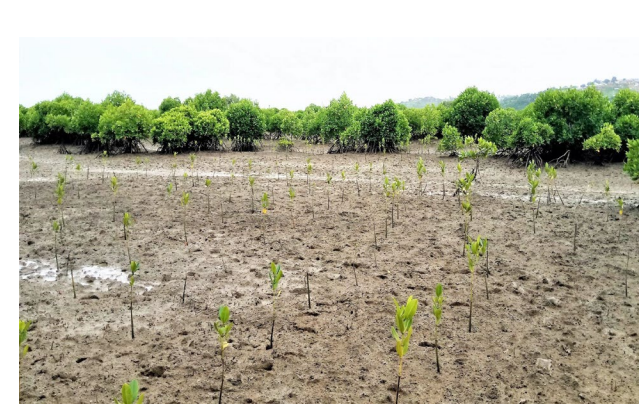
2018



2019



2020



PROPOSED OBJECTIVES

Community Based Initiatives

- Scale up Mangrove tree nursery production to 1.5M seedlings/Year
- Scale up sustainable mangrove honey production to 300 kg/farmer groups.

Restoration:

- Map 2000 Ha for restoration of Degraded & Suitable for forest establishment
- Map 2500 ha for Conservation of existing second generation forest

Carbon Investment:

- Create 2000 ha of mangrove forest stand equating to 2.8MtC.

Community :

- Improve livelihood of 1000+ families through carbon finance benefit

Proposed Project Area.

- Baseline Survey and Remote mapping data for July 2020.
- Areas determined by physical characteristics and canopy density of less than 30% distribution cover per ha.

Location	Available Area (Ha)	Yr 1	Yr 2	Yr 3	Yr 4
Majoreni - Kibuyuni	1016.885	337Ha	236Ha	237Ha	206Ha
Mwazaro-Bodo-Funzi	416.324	115Ha	104Ha	99Ha	99Ha
Rabai-Mwakirunge	1016.578	252Ha	365Ha	355Ha	345Ha
Total Coverage	2750	704Ha	705Ha	691Ha	650Ha

Monitoring Program.

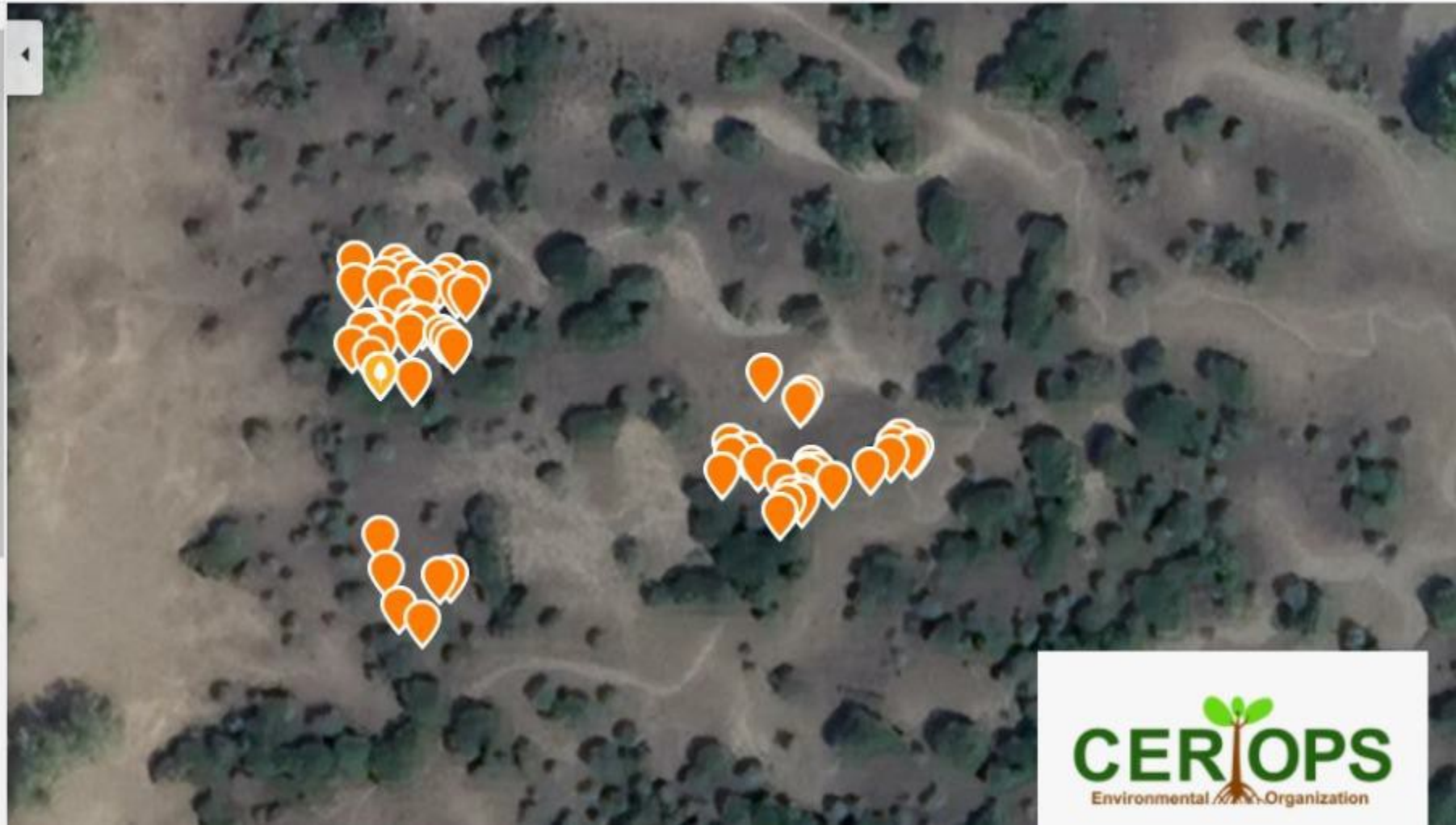


Tree Tracking: Restoration Monitoring

Android Application



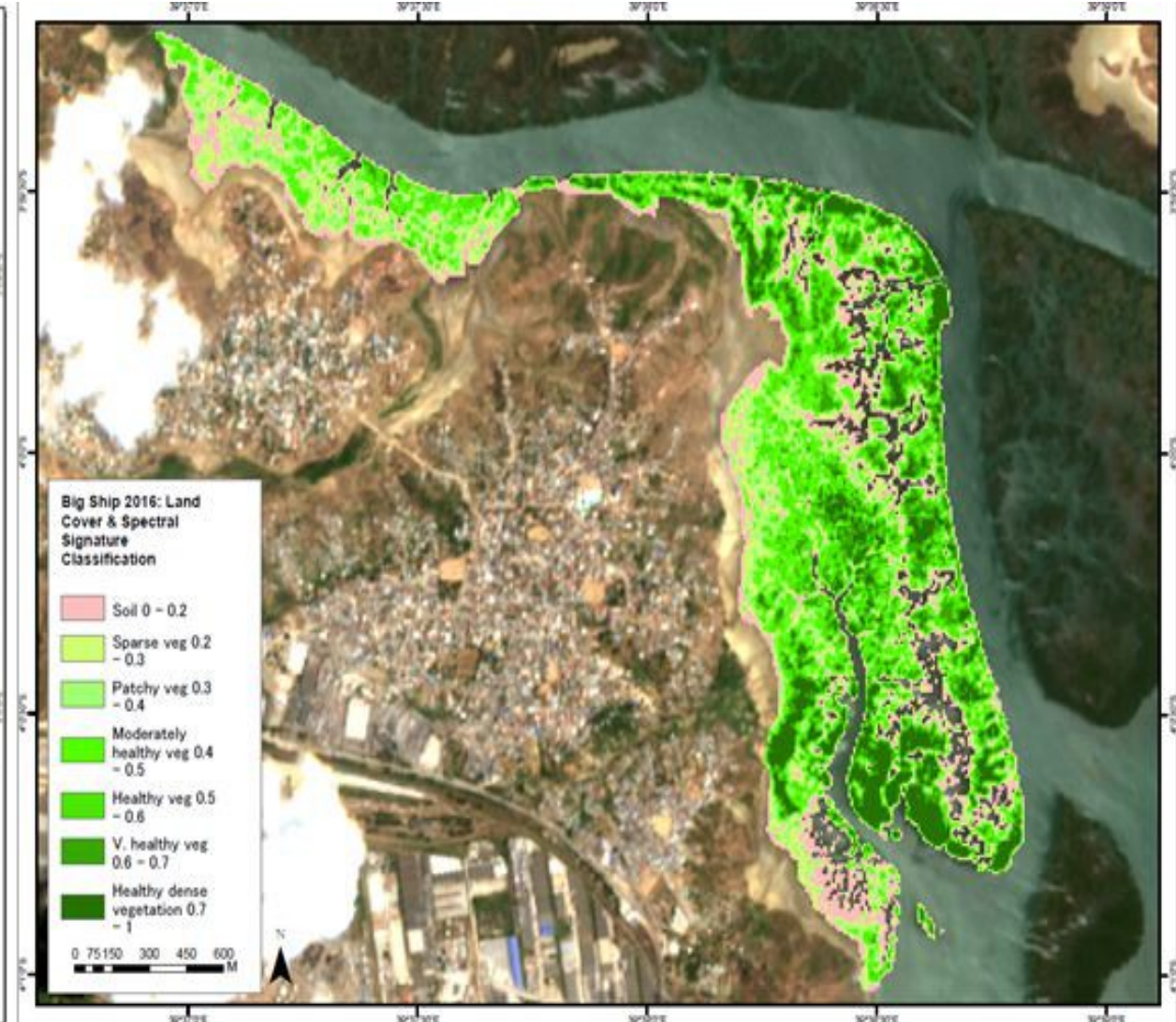
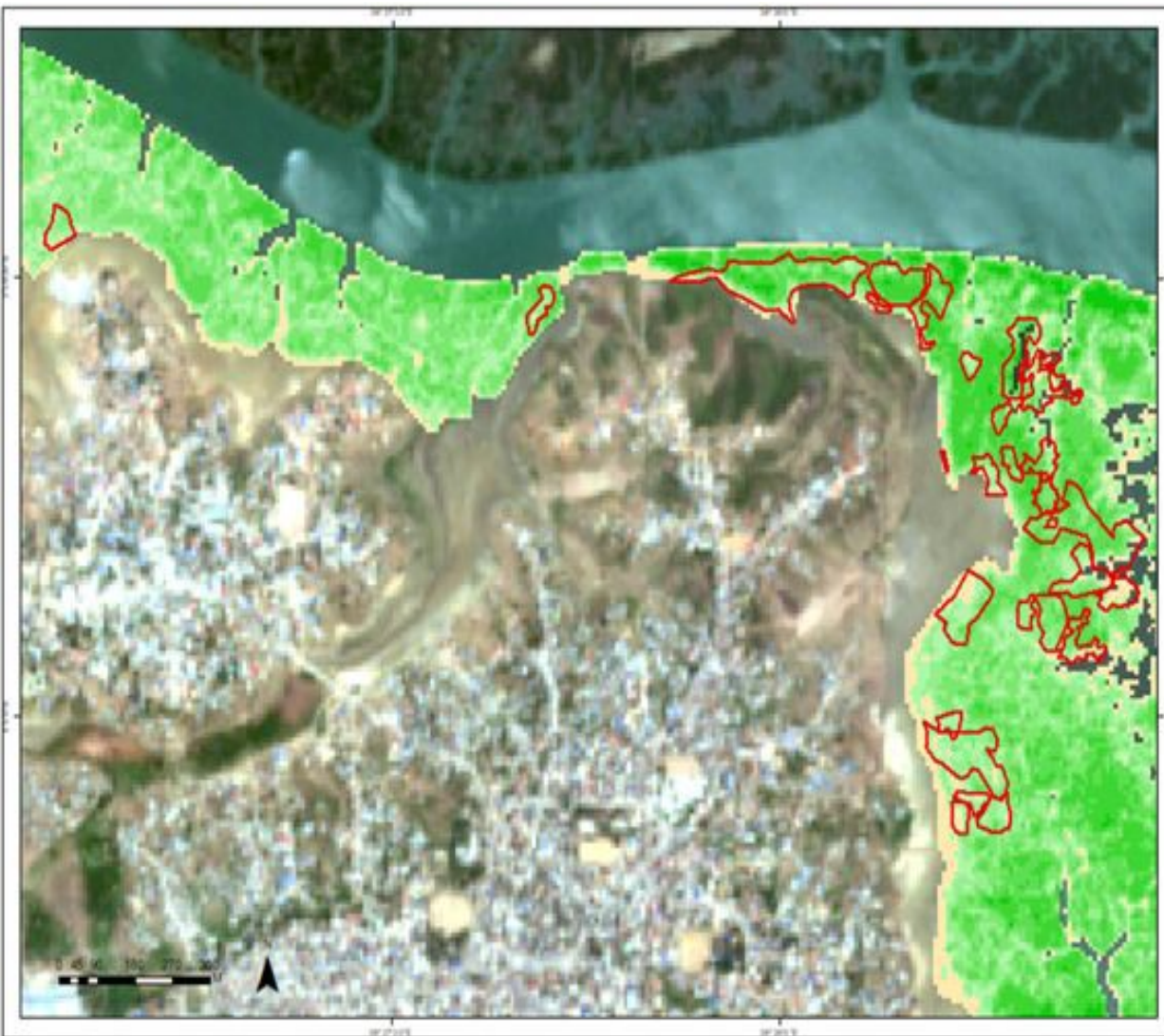
Web based Tree Map



Tree Tracking: Restoration Monitoring



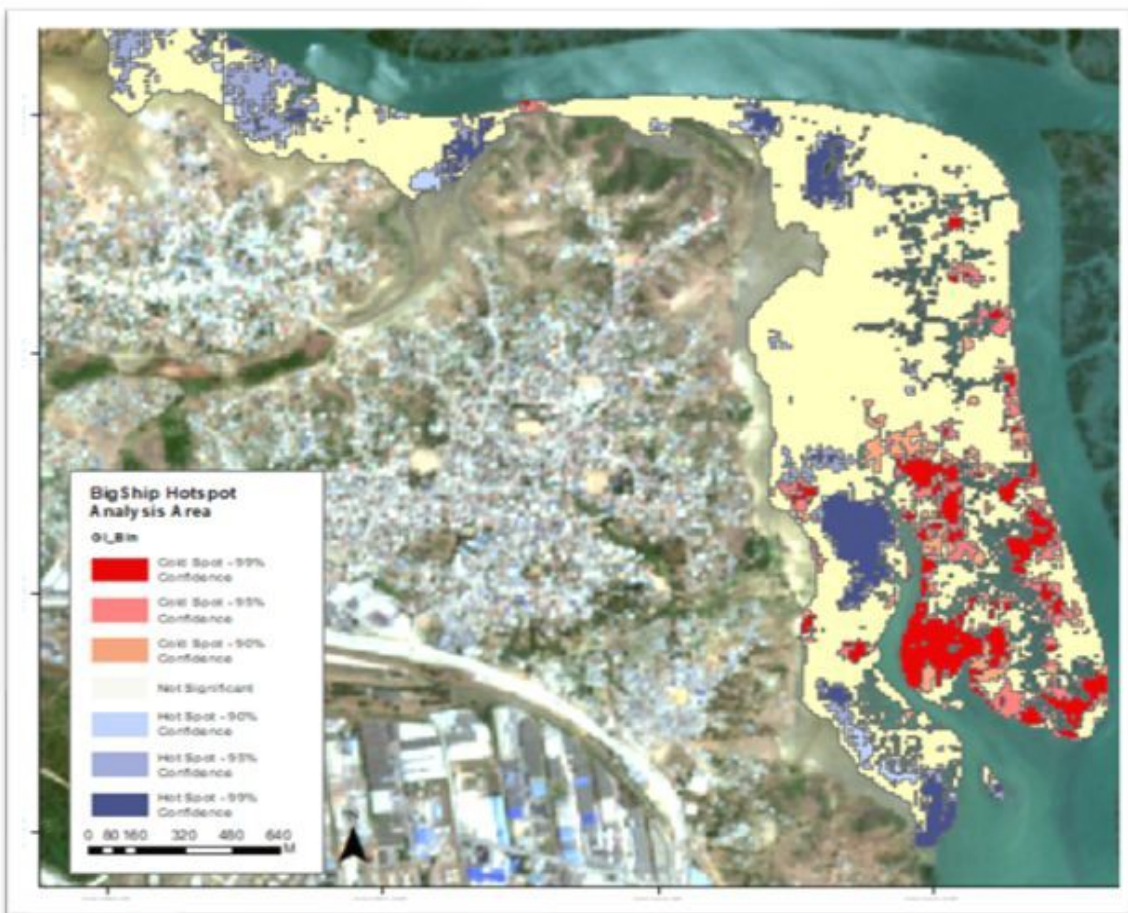
Remote sensing: Patches & Filling.



NDVI Change detection (2016-2020)

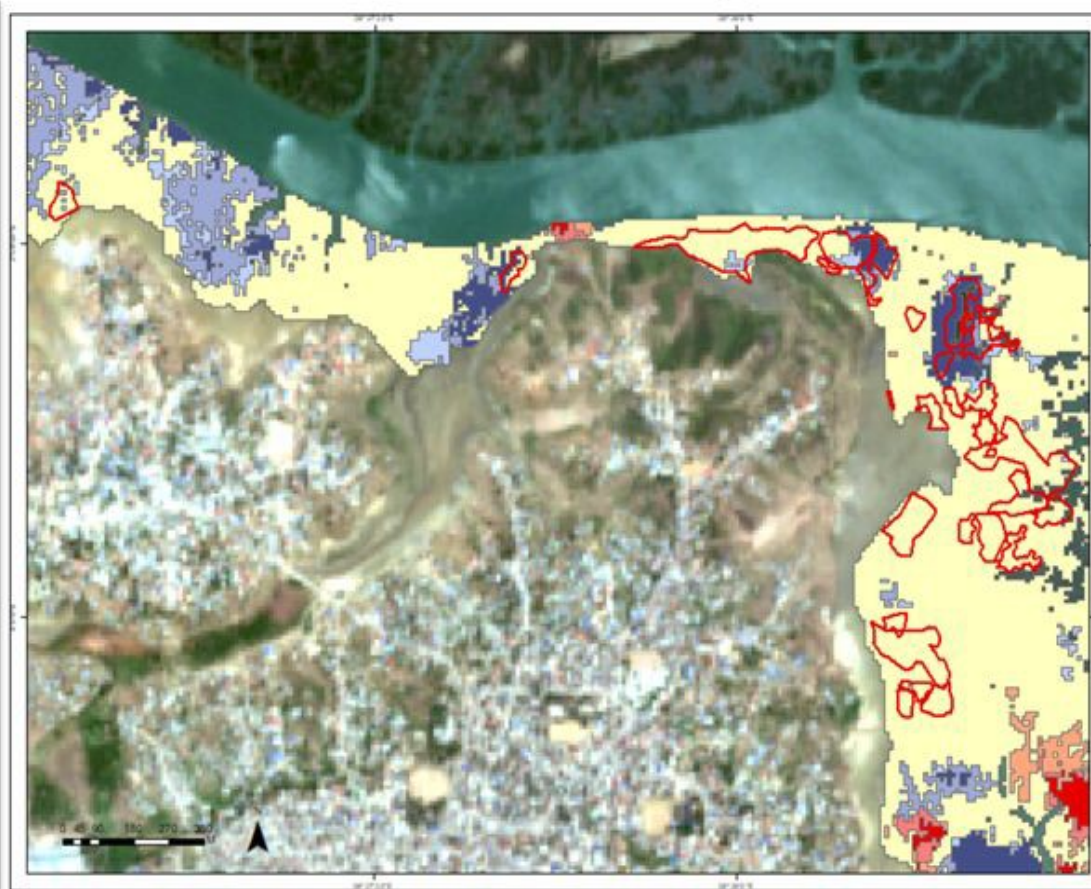
Analysis Area:

- Loss: 11% - 30ha² / 0.3 km²
- Growth: 5% - 15ha² / 0.15km²



Ceriops Sites: Concentrated growth

- Loss: 1% - 0.19 ha² / 0.0019km²
- Growth: 10% - 1.68 ha² / 0.0168km²



PROGRAM CHALLENGE (2016-2020)



"It's the little things citizens do. That's what will make the difference. My little thing is planting trees."

- Wangari Maathai, Kenyan environmentalist & 2004 Nobel Peace Prize Winner



Asante!



Partner with us to make this possible!

Contact us: info@ceriops.org
Visit our website: www.ceriops.org

2013 Earth Week Heroes from Renewable Choice



Initiative for Sustainable Landscapes: ISLA

Presenter: Beatah Nzove, Senior Program Manager, ISLA Program Kenya, IDH, The Sustainable Trade Initiative



INITIATIVE FOR SUSTAINABLE LANDSCAPES: ISLA



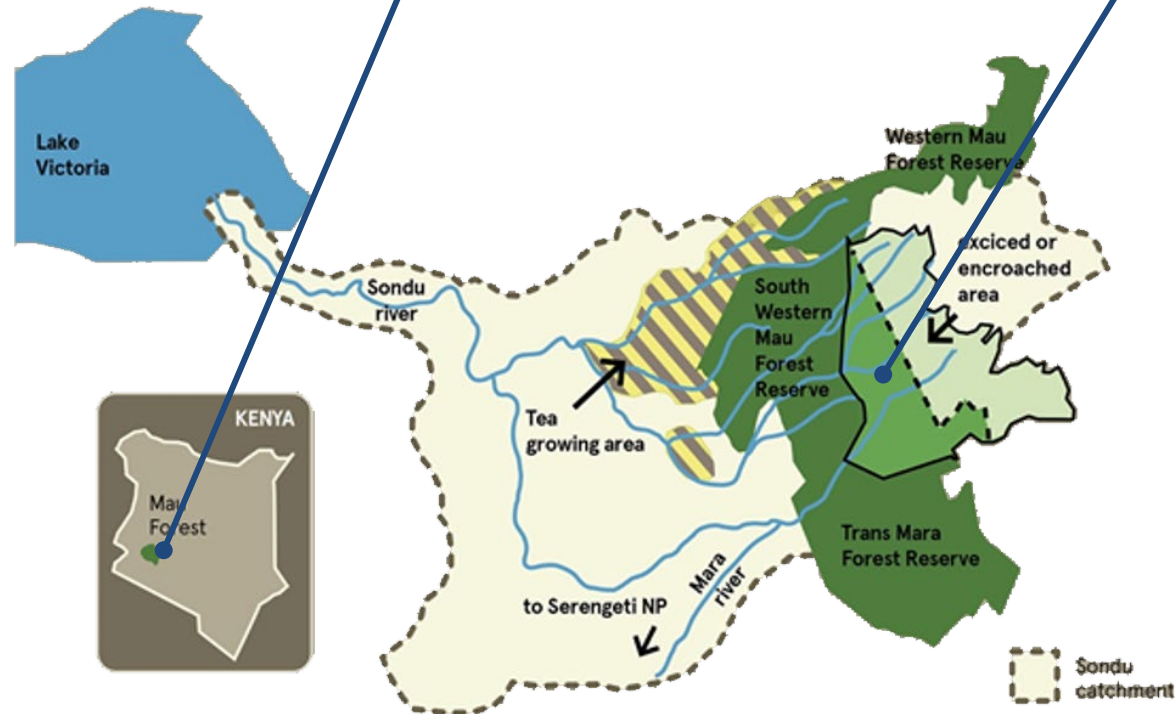
Location



South Western Mau Forest block in the Sondu River Basin ;60 000 hectares targeted for restoration and protection



20 000 hectares targeted for restoration



Forest threats;



Encroachment



Forest threats;

Livestock grazing
and browsing



Forest threats;



Wood extraction
for charcoal
and firewood



Forest threats;

Fire and poaching



Tea Private Sector Partners



Public/Government partners



KENYA
WILDLIFE
SERVICE



Corporate Partners



NGOs and Civil Societies



CFA's and
WRUAs

Implementing Partners



IFCMS

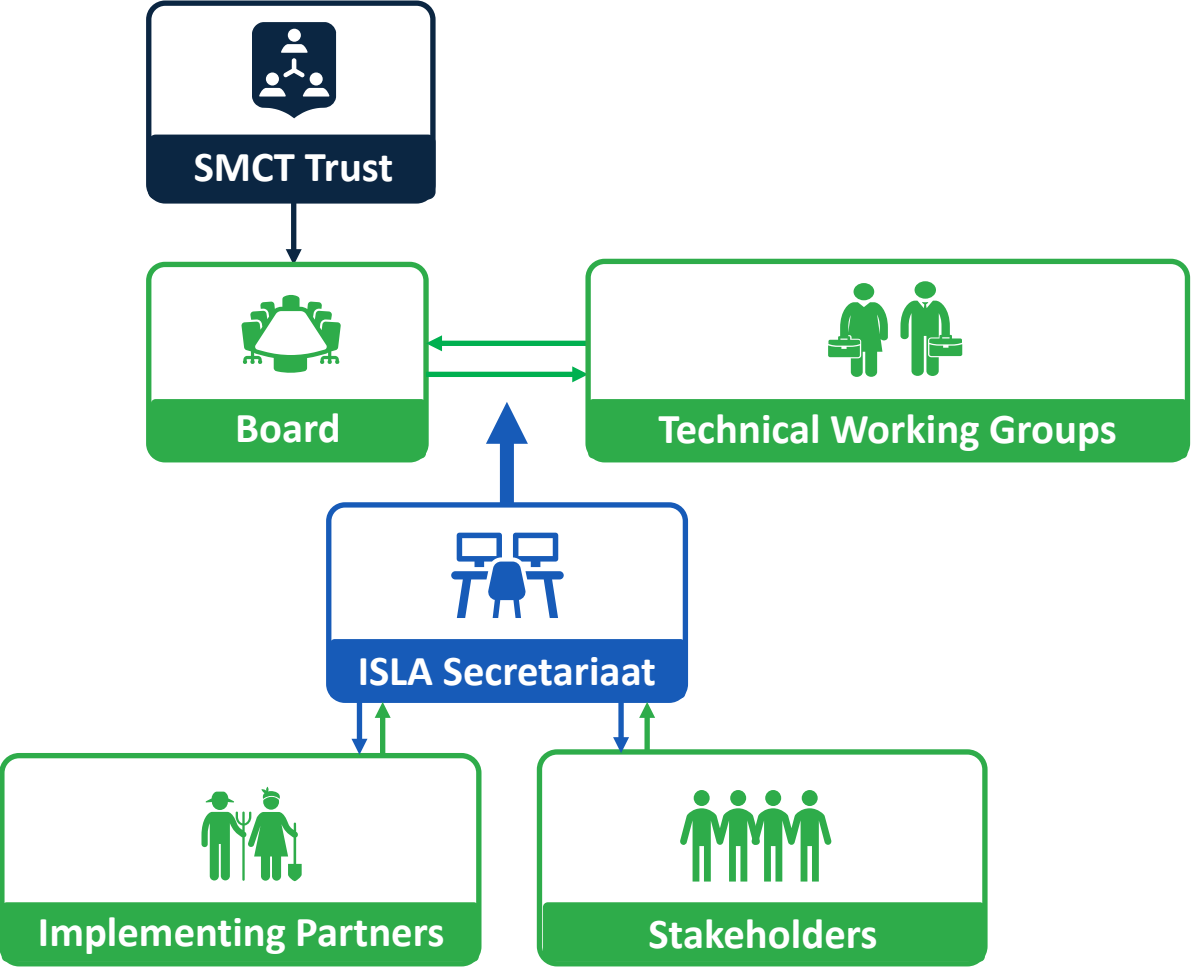


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Other Partners: Ministry of the Foreign Affairs of the Kingdom of Netherlands, CIFOR, IDH, P4F (DfID)



Governance





Thematic areas;

1. FOREST CONSERVATION

Done through:

- Adopt a forest
- Capacity building of CFAs
- Dairy Value Chain Development
- Addressing illegal forest activities;
Surveillance flights, Bongo surveillance projects and enhanced law enforcement





Thematic areas;

2. WATER FLOW AND ACCESS

Done through:

- Strengthening WRUAs
- Springs rehabilitation and protection



Thematic areas;

3. SUSTAINABLE ENERGY

Done through:

- Community access to sustainable energy



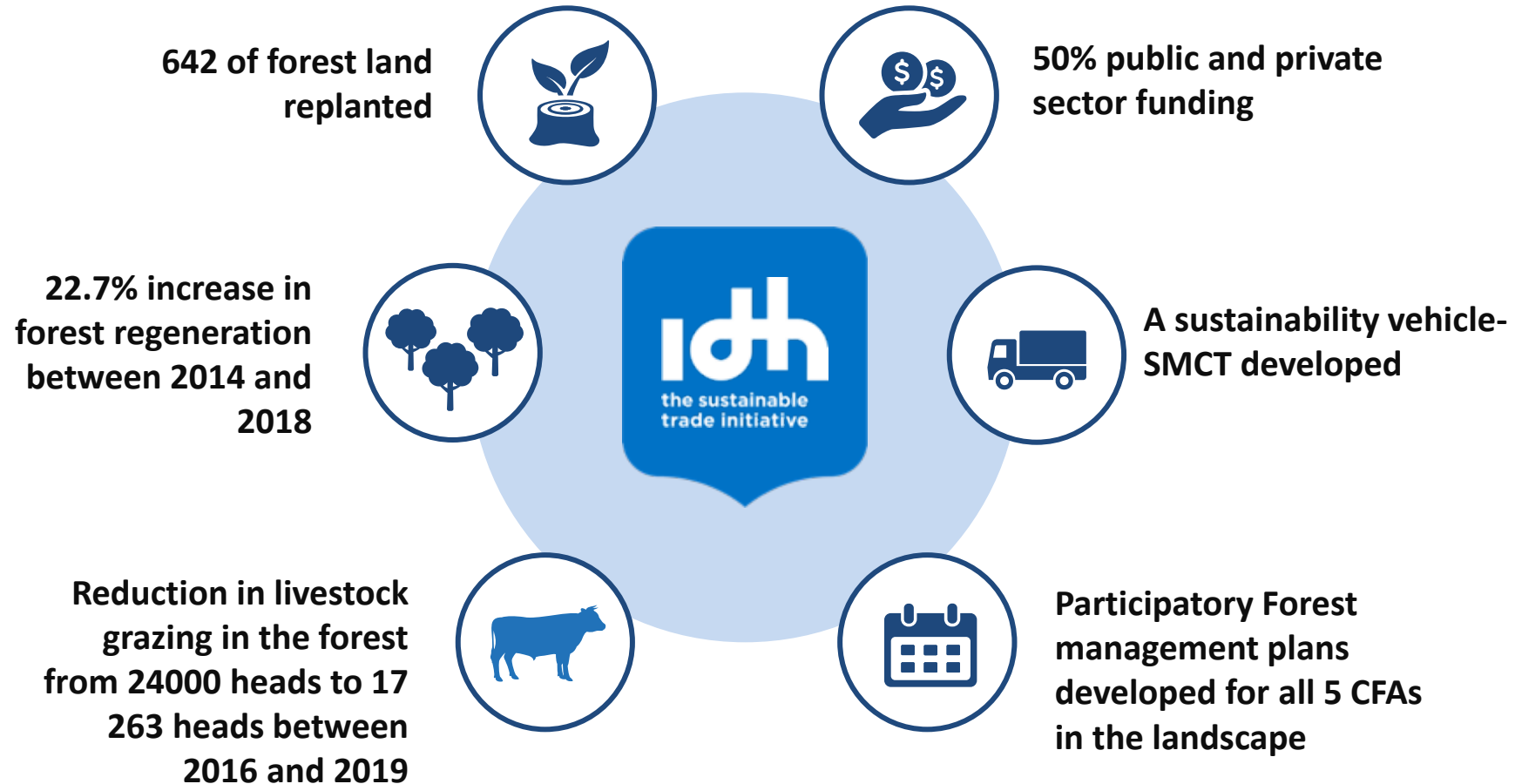
Thematic areas;

4. IMPROVED LIVELIHOODS

The theme on improved livelihoods cuts across all the three themes



Key Achievements



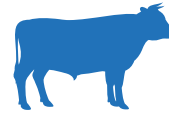
Plans for Phase II 2021-2025



Convene the public and private sector funding to expand interventions initiated in the 1st phase of the program



Upscale Interventions in the 1st phase;
-Forest conservation
-Dairy VC Development
-Water Rehabilitation
-Ecotourism



Increase collaboration to lower number of cattle in the forest in order to speed up forest regeneration



Operationalize the ISLA Sustainability vehicle; Stawisha Mau Charitable Trust



THANK YOU

For further information
please contact:
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Community Forest Land Restoration Efforts and Programs

Gerald Ngatia, NACOFA Secretary



Community involvement in forest land restoration

- Communities' world over not just in Kenya play a vital role in protection and sustainable management of forests.
- Protection and sustainable management of forests was a cultural practice that has been practiced over the years by many ethnic groups in this country.
- However, this tradition has been eroded through the years by economic pressures exerted on our forests through the years

Community Forest Associations (CFAS) Involvement In Forest Land Restoration

- Forest laws in Kenya have recognized communities as important stakeholder in protection and sustainable management of forests.
- There are over three hundred registered CFAs in Kenya today many operating in gazette forest blocks and others in community and county forests.
- The CFAs bring together communities living adjacent to forests in implementation legal and well coordinated forest utilization, protection and rehabilitation programs.
- Kenya Forest Service Officers (KFS) on the ground provide guidance and technical support to the CFA members
- National Alliance of Community Forest Associations (NACOFA) is the network that brings together all CFAs in the country and is the nation voice and linkage both to the government and various partners between on matters of policy and community issues.

Community and KFS collaboration and other partners

- CFA members loading indigenous tree seedlings on a Kenya Forest Service vehicle in South Kinangop (Aberdares) for planting on a degraded forest site in May 2021
- Over 40,000 mixed indigenous tree seedlings planted by that CFA this year in that forest station with facilitation by WWF-Kenya and NACOFA



Community collaboration with private sector and other government agencies

- Community members Of Mombasa Kilindini CFA rehabilitating a Mangrove Forest

with support from Kenya national Highways Authority (KENHA)

Some other Communities in the coast region are earning Carbon credits from their Efforts in restoration of Mangrove forests. (Mikoko pamoja project in Kwale)



Community efforts in tree seedling production

- Nearly all CFAs in the country have tree nurseries that produce wide range of mixed indigenous tree seedlings for forest land rehabilitation programs, Exotic tree seedlings for plantation development , Fruit tree and Bamboo seedlings for on farm and riparian areas planting.
- Tree seedling production capacity ranging from 20,000 to over 500,000) annually per CFA depending on capacity to fund raise or attract partnership of each particular CFA
- All these efforts have assisted in increasing tree cover in the country.
- Kabarú CFA in collaboration with KFS presently (as at July 2021) has a stock of Six Hundred and Thirty Two tree seedlings in their tree nursery ready for planting this year.
- The only major challenge being limited market for seedlings which at times over grow in tree nurseries and go to waste. Thus demotivating the communities.



Successes in legal frameworks

- Having in place good legal frameworks that recognize environment is an asset for the wellbeing of citizens and also big opportunity in this country (The Constitution, Forest Act, EMCA, Water Act, Wildlife Act etc)
- Community recognition in various laws in the environment sector is also a big opportunity and success in this sector.
- Forest Sector; Community Forest Associations(CFAs)
- Water Sector; Water Resource Users Associations (WRUAs)
- EMCA; County Environmental Committees
- Wildlife Act; County Wildlife Compensation Committees



THANK YOU! ASANTE!

LEARN MORE:

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