

Dear MWCT friend,

2022 was another very challenging year. Eager to put the Covid pandemic behind, we were faced by one of the worst droughts ever.

Pot poaching increased and we faced some technical challenges in our monitoring and data collection.

Wildlife Pays continues to be a silver bullet for the protection of all predators, but it has certainly been challenged by numerous unacceptable claims, where livestock had been predated from being left out unattended when too weak to walk... terribly sad and showing that we need to help the community face overstocking and overgrazing.

On the positive side:

The Chyulu Hills REDD+ Carbon Project was accredited with 3,100,000 new verifed credits, one of which was the billionth credit issued by VERRA.

The CHRP Project Office not only contained illegal fires, but also fought very efficiently, through the hiring of an air tractor, the occurring bush fires.

During the drought, the CHRP Project Office was able to deliver a food program to 59 schools and supported 24,000 students.

We look at 2023 hoping that the so badly needed rains will indeed arrive and that MWCT will succeed in supporting the communities in their desire to transition from the Group Ranch Act to the Community Land Act. What is key is to protect the community Natural Resources for generations to come.

Rangers have been re-arranged in different units, which shall also deliver more efficient protection of the 400,000 acres of Maasai land we are directly involved in protecting.

Thank you for your support, Luca Belpietro

# CONSERVATION

#### Wildlife Security & Habitat Protection

Ranger Patrol Incidents & Conflicts Wildfires

#### Wildlife Monitoring

Species Sighting
Lion Monitoring
Simba Scouts
Camera Trap Results

**Predator Protection**Wildlife Pays

NYC Marathon
Land Restoration / Bee-Keeping
Chyulu Hills REDD+ Carbon Project

### HEALTH

Outreaches Immunization Reproductive Health Public Health

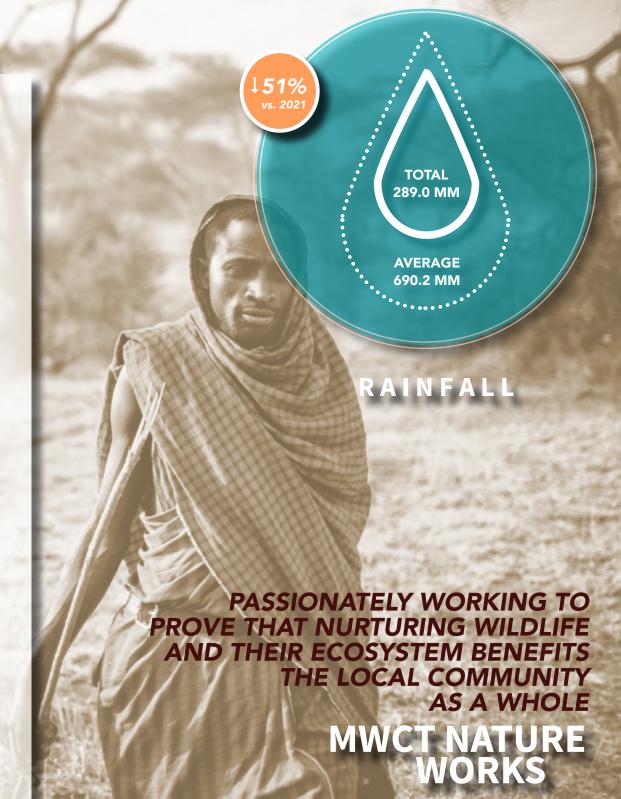
# LIVELIHOODS

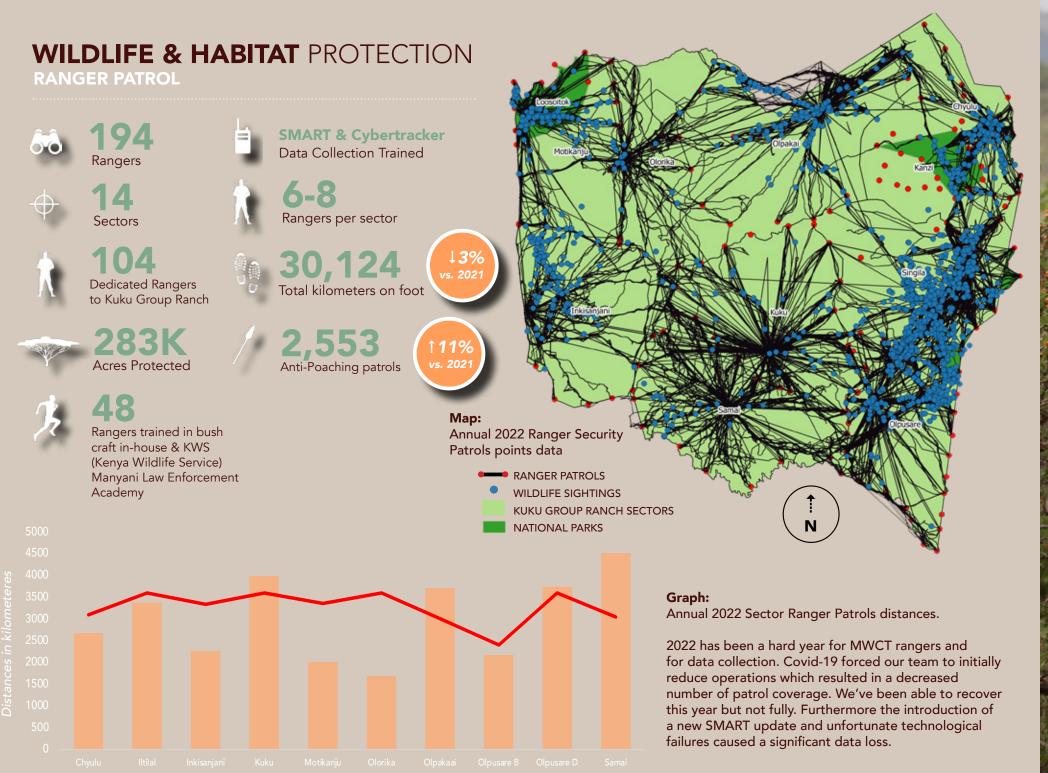
Land restoration/JustDiggit Sustainable Menstrual Project

# **EDUCATION**

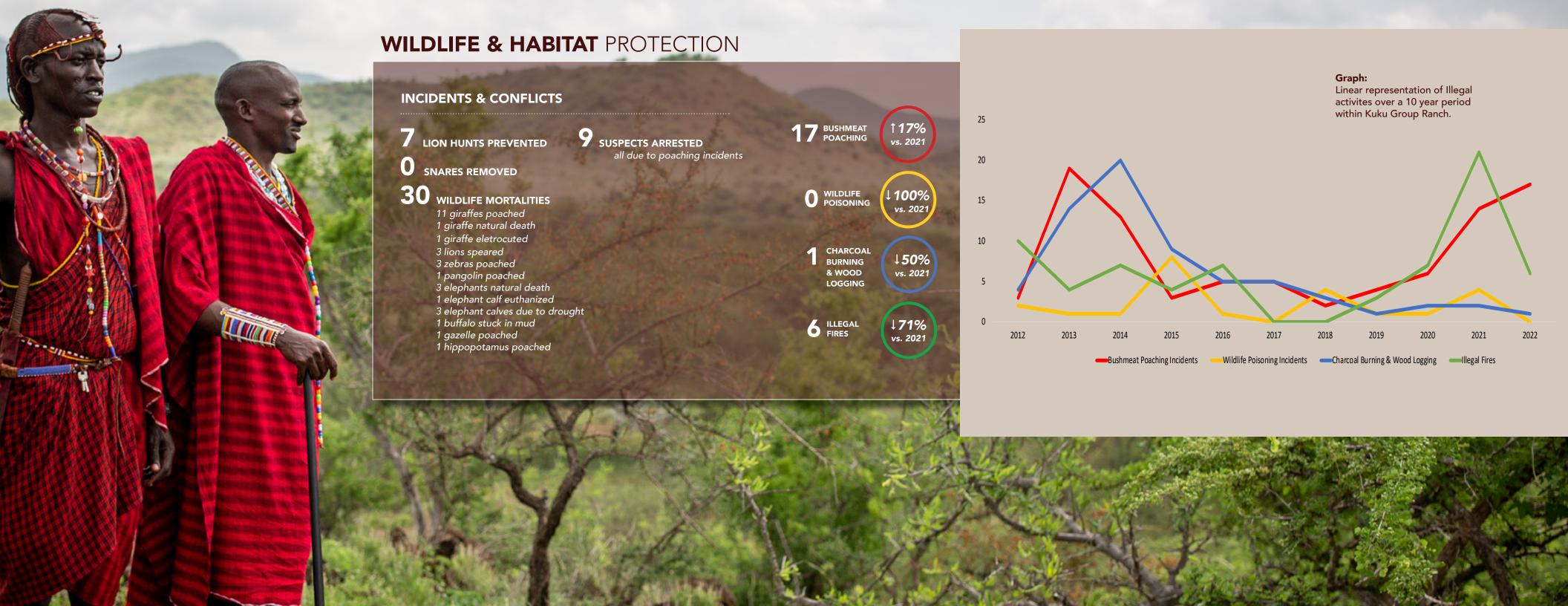
Achievements Challenges

FINANCIALS
PARTNERS & SUPPORT





# 37,450 ACRES HIGH VALUE **CONSERVANCIES** PROTECTED: MOTIKANJU + KANZI + OLPUSARE + ROMBO **FOREST, GRASSLAND & CRITICAL WILDLIFE CORRIDOR** NO GRAZING NO POACHING HIGH LAW ENFORCEMENT PROTECTED BY 53 RANGERS 10,889 TOTAL KM FOOT PATROL OF ALL **CONSERVANCIES** ↓27%



### **INCIDENTS & CONFLICTS**

### KEY NOTES

JAN 8

1 Giraffe poached Investigation ongoing

1 Giraffe poached Investigation ongoing

1 Giraffe poached 1 suspect arrested

FEB 18

1 Giraffe poached Investigation ongoing

FEB 26

1 Giraffe poached Investigation ongoing

to be in self-defense

1 Lion speared Incident was found

1 Giraffe carcass

Natural death

**APR 12** 

Investigation ongoing

1 Giraffe poached Investigation ongoing

1 Pangolin poached 2 suspects arrested

1 Elephant carcass Natural Death

**JUN 29** 

1 Giraffe poached Investigation ongoing JUN 29 - 30

1 suspect arrested

2 Giraffes poached Investigation ongoing

1 Elephant carcass Natural Death

1 Elephant calf (sick) Euthanized by KWS Vet

AUG 5

1 Elephant calf (sick) Treated by KWS Vet

**AUG 29** 

1 Giraffe electrocuted

Due to fence

**AUG 31** 

3 bags of Charcoal 3 suspects arrested SEPT 6

1 Giraffe stuck in mud Drought related

1 Giraffe poached Investigation ongoing

SEPT 21

1 Lion speared

**Retaliatory Hunt** Investigation ongoing

SEPT 24

Investigation ongoing

OCT 4

1 Elephant calf stuck in mud Rescued by MWCT, Treated and airlifted by SWT/KWS

OCT 6 / 10 / 24

3 Elephant calves (sick) Drought related

**OCT 18** 

1 Elephant carcass Natural Death

OCT 21 - 22

2 Buffaloes stuck in mud 1 Buffalo died

1 Buffalo rescued

1 Gazelle poached 4 suspects arrested

**OCT 24** 

1 Giraffe poached Investigation ongoing

**OCT 26** 

Investigation ongoing

NOV 3

1 Lion speared

Investigation ongoing

1 Hippopotamus carcass Drought related

Several sacks of poached bushmeat confiscated 1 suspect arrested

### **WILDFIRES**

Only 6 fires were reported inside Kuku Group Ranch during the fire season of 2022 between September and October. The fires were less, compared to the previous years' partly because the drought condition within the group ranch meant that there was less grass to burn. MWCT rangers responded to all 6 fires such that there was no damage to infrastructure. The fires were also extinguished in good time such that no fire became out of control.

MWCT rangers also supported partner teams in responding to 10 fires within the Chyulu Hills REDD+ Project (CHRP) area. The fires were mainly in Chyulu Hills National Park, and they were more intensive because grass was plenty in the park (grazing is not allowed).

As part of the Fire Management Plan, MWCT - as the acting Project Office for the CHRP, hired an air tractor for two months to help fight fires within the landscape. The air tractor responded to fires in KGR and the CHRP project area. The fires became less intense overtime as the air tractor was effectively extinguishing fires before they became extensive. Across the project area, the air tractor covered a total of 137 flight hours, over 105 flights, and over 216,500 litres of water was dropped in September and October. The longest flight was taken on October 24th as the air tractor flew for 11.3 hours in one day.

### **KUKU GROUP RANCH**

#### SEPT 21

#### SEPT 24

### AUG 20 - 22

CHYULU HILLS NATIONAL PARK

#### SEPT 12

#### SEPT 27

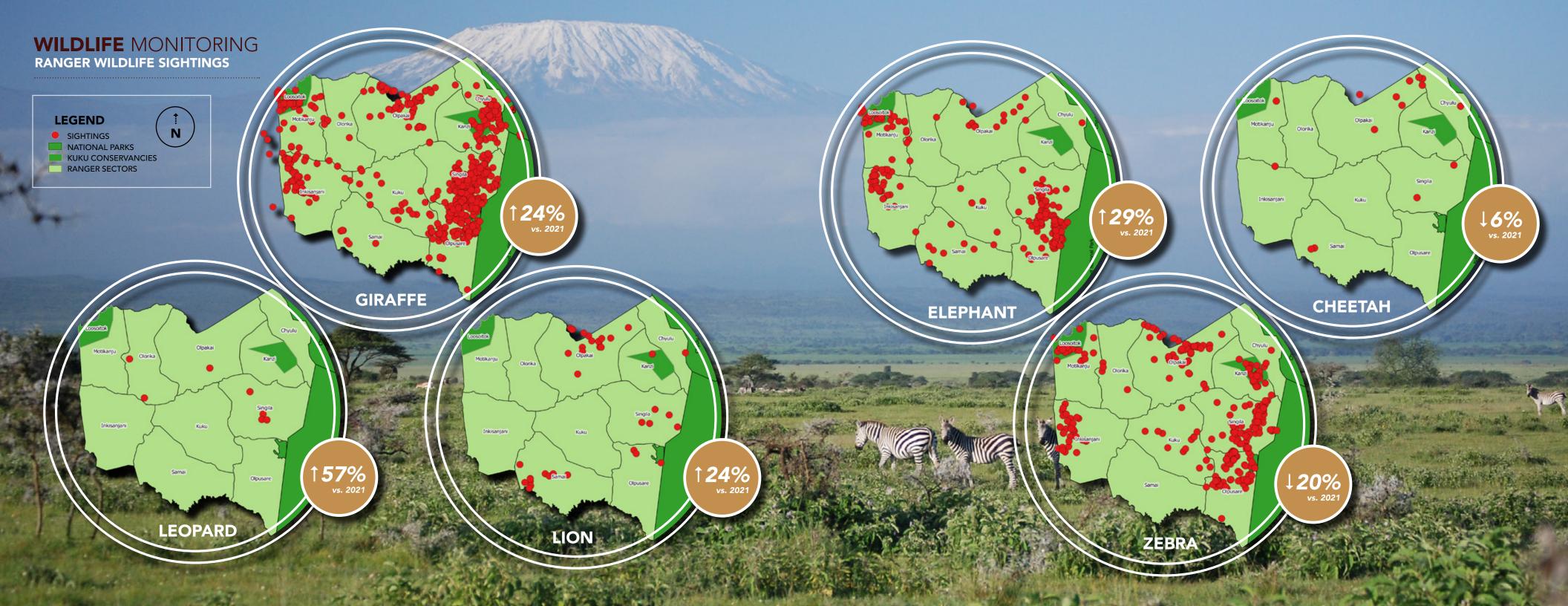
#### OCT 5

#### OCT 16

#### OCT 17

#### **OCT 23**

#### OCT 24 & 27









### PREDATOR PROTECTION

WILDLIFE PAYS COMPENSATION PROGRAMME

### PES (PAYMENT FOR ECOSYSTEM SERVICES)

Protecting the major predators of our ecosystem in Kuku Group Ranch

#### THE PROCESS

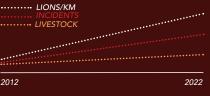
- Multi-layer system of Verification and 4 dedicated Officers
- Detects and prevents fraud that might undermine the programme
- Payments are made quarterly to the community
- Compensation is based on 4 types of livestock losses
- Ensures Maasai pastoralists utilize good husbandry practices
- Prevent greater or further losses

#### **COMMUNITY OUTREACHES**

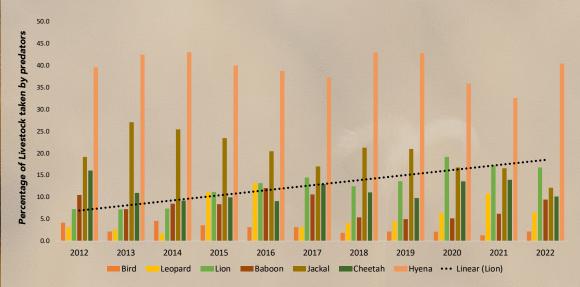
Rangers, prominent community figures and MWCT staff, conduct meetings with communities that are feeling increased pressure of predation, as well as with the young Maasai warriors (Morans), to prevent the groups from any lion killing in retaliation to livestock losses.

During 2022, we observed an increase in the number of Wildlife Pays incidents recorded and approved for compensation since 2021. During the earlier stages of the coronavirus pandemic, more people were available for herding. Similar to last year, there were significant increases in livestock depredations most evident in the last two quarters of the year, and can be attributed to drought conditions and an influx of livestock from areas outside of Kuku GR. This, coupled with the increasing wildlife and livestock population in KGR, can lead to raised levels of depredation caused by various predators.

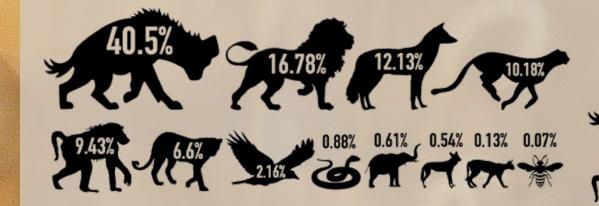
Overall percieved trends are depicted in the graph on the right over a 10 year period.



#### **PREDATORS**



The most livestock taken in relation to predators were due to Hyena. Over the course of 10 years there has also been an overall increase in incidents by lions, this could be due to the recovering lion population in the area. Specific percentages for the amount of incidents accounted for in 2022 from each predator species are depicted in the infographic below.



#### **HEADS OF LIVESTOCK**

A total of 4,246 heads of livestock were killed this year. The majority of livestock killed by predators were sheep followed by the other livestock species seen in the info graphic below.

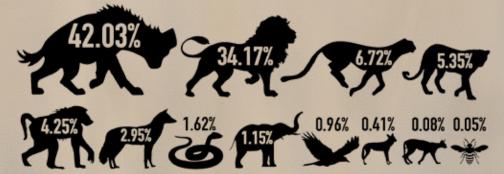


#### **CLAIMS**

The total pay-out of claims was **10,113,700 Ksh** (81,496 USD), an increase compared to the amount paid in 2021 (7,671,700 Ksh / 67,307 USD).



### PREDATOR PAY-OUT VALUE PERCENTAGES



### **COLLABORATIONS** & EVENTS NEW YORK CITY MARATHON



# \$42,992 RAISED

For the 12th year running, The Maasai Wilderness Conservation Trust has fielded a team to run and raise funds for critical programs in Chyulu Hills, Kenya.

In the past, young Maasai Warriors traditionally went out to hunt lions as an act of coming of age. We provide an alternative avenue for young Maasai boys and girls to exercise and showcase their skills, rather than practices that cause the population of wildlife to decrease. Due to COVID, we were not able to send any runners in the last 2 years. Fortunately, this year we were able to do a soft launch back into the race with a team of passionate conservationists and supporters to raise funds for our programs. We couldn't be more grateful with the amount of support we received throughout the year and during their stay in New York City!

Special thanks to Ed Norton, NYRR, The Moxy Hotel Time Square, and our incredible team of runners for their passion and fundraising efforts, we couldn't



### LAND RESTORATION **OLPUSARE CONSERVANCY**

Olpusare Conservancy is 2,000 acres with a 450-acre wetland, which has suffered from unsustainable farming techniques for many years. Our land restoration project aims to restore the wetland, its soil, and its spring, with

sustainable farming and reforestation activities. This year, the following activities were achieved:

#### **FOREST / TREE NURSERY**

The tree nursery project was inactive in 2022. Notwithstanding, 200 indigenous trees were sourced from Kilifi and planted. The species planted Acacia xanthophlea, Acacia tortilis, Newtonia buchannani, and Doum palms. Low rainfall and pressures from browsing animals have kept the survival rates of the planted trees at 40%.

#### **ORGANIC FARM**

In 2022, over 30 varieties of vegetables and herbs were planted in the organic farm. Some of the harvested crops include spinach (1035 kg), Kale/Collard Green (859 Kg), Cabbage (68 kg), Onion (84 kg), Cauliflower (45 pcs), Eggplant (533 pcs), Butternut (39 pcs), Indigenous vegetables (315 kg), Zucchini (12 pcs), Tomatoes (274 kg), Sweet pepper (191 pieces), Carrot (57 kg), Beetroot (33 pcs), Lettuce (580 heads), Baby Spinach (21 kg), Rockets(7.5 kg), Spring onions (39 kg), Coriander (92 kg), Chillies (10 kg), Parsley (10 kg), Rosemary (50 kg), Basil (34 kg), Lemon grass (6kg), Mint 21 kg) and Watermelon (38 kg).

Organic manure and locally made compost was used throughout the year to maintain soil fertility. A wide range of cultural methods were also used to protect the crops from pests and diseases.

Farm production increased significantly. Part of the reason for increased production was the engagement of an additional farmer with vast experience in organic farming. Notwithstanding the farm faced serious challenges with the prolonged drought. Wild animals (especially baboons and guinea fowls) often foraged for food inside the farmed area.



### **BEE-KEEPING & HIVE CHECKS**

This year a total of 100 new hives were procured and were delivered to 5 community women's groups and 5 men's groups through the Chyulu Hills REDD+ Carbon Project. The groups recieved detailed training on beehive maintenance, best practices and how to harvest honey.

There was no honey harvested this year due to the severe drought and to avoid disturbing the bees during the dry season.

#### HIVE CHECKS

#### **SAVE THE ELEPHANTS HIVES**

**Enkii** - 6/15 hives colonized

Inkisanjani (Women's Group) - 14/15 hives colonized

Inkisanjani (Farmer) - 10 hives relocated to Enkii, 5 hives to women's group

Moilo - 20/30 hives colonized

#### **MWCT HIVES**

Campi ya Kanzi - 2/3 hives colonized CCRC - 19/19 hives colonized Chyulu - 3/3 hives colonized Naga D & B - 3/4 hives colonized

#### **INDIVIDUALLY OWNED HIVES**

Enkii - 9/30 hives colonized Inkaramatak - 4/10 hives colonized

#### **REDD+ HIVES**

Northern Kibwezi - 42/80 hives colonized Southern Kibwezi - 26/80 hives colonized Rombo - 68/150 hives colonized Mangalete - 16/100 hives colonized





### CHYULU HILLS CONSERVATION TRUST

**REDD+** CARBON PROJECT

### WHAT IS REDD+?

The main drivers of forest destruction are economics and poverty. **REDD+** is a mechanism that has been developed through the UN Framework Convention on Climate Change (UNFCCC) to provide economic incentives to protect forest rather than destroy it.

By protecting forests, greenhouse gas emissions are avoided. The international carbon markets recognise that carbon emissions result in real costs and risks to the planet as a result of the damage caused by climate change – droughts, extreme weather, sea level rise, loss of glaciers, ocean acidification, etc.

Payments to REDD+ projects enable individuals, companies and institutions to reduce their net emissions and receive "carbon credits" that offset their carbon footprint.

#### **CHYULU HILLS -** a critical corridor:

The Chyulu Hills sit close to Kenya's southern border with Tanzania nestled in front of Mount Kilimaniaro, which towers over this iconic African landscape. The hills themselves, like the great mountain, are the result of the violent volcanic history of this region. They gently rise nearly 4000 ft above the surrounding dry plains and savannah, just high enough to capture the clouds and provide conditions for the growth of a lush tropical montane cloud forest along its ridge tops. The landscape (nearly 4000 sg. km) forms a critical "bridge", linking together two of Kenya's most important wildlife areas, the greater Tsavo Ecosystem and Amboseli Ecosystem.

This area is home to Kenya's largest surviving population of elephants and one of its foremost large-scale wildlife and wilderness areas. The Chyulu Hills REDD+ Project aims to protect the Chyulu Hills landscape, its forests, woodlands, savannahs, wetlands and springs, and its wild populations of Africa's best known animals lions, cheetahs, wild dogs, rhinos, elephants, and various antelopes.





### **CREDIT STANDARDS**

- **CCBS** (CLIMATE COMMUNITY & BIODIVERSITY STANDARDS
- HIGHEST **GOLD RATING** DUE TO EXCEPTIONAL BENEFITS

### 15-20% of Greenhouse Gases are caused by Forest destruction (more than cars, planes & trains put together)

### **9 STAKEHOLDERS CHYULU HILLS CONSERVATION TRUST**

- KUKU B

- KENYA FOREST SERVICES
- MAASAI WILDERNESS CONSERVATION TRUST
- BIG LIFE FOUNDATION
- DAVID SHELDRICK WILDLIFE TRUST

### **HOW IT WORKS**



100% OWNED AND MANAGED BY LOCAL INSTITUTIONS

### **QUICK FACTS**

**ACRES OF LAND PRESERVED** 

**REGISTERED CREDITS SOLD** (FIRST VERIFCATION)

**NATIONAL PARKS CONSERVED &** A VITAL DISPERSAL AREA FOR AMBOSELI NATIONAL PARK

00,000 INDIGENOUS BENEFITTED

**INDIGENOUS PEOPLE** 



PRESERVING A CRITICAL WATERSHED, **FEEDING WATER TO MOMBASA** (2ND LARGEST CITY IN KENYA)



**PROTECTING ICONIC & ENDANGERED WILDLIFE** 

"The Chyulu Hills REDD+ Project represents a model partnership between government, local communities, and the private NGO sector to build a much needed sustainable funding model for conservation."

- JUDI WAKHUNGU (Former Cabinet Secretary for Ministry of Environment, Water & Natural Resources of Kenya)

### **IMPACTS**

NEWLY REGISTERED CREDITS (SECOND VERIFICATION)

RANGERS TRAINED IN FIRE FIGHTNG

SUSTAINABLE MENSTRUAL PRODUCTS

**BEE HIVES DELIVERED WITH COMMUNITY BEEKEEPING TRAINING** 

SCHOOL BURSARIES

LOCAL EMPLOYMENT (RANGERS, **TEACHERS, HEALTH WORKERS)** 

**NEW INFRASTRUCTURES BUILT** 

**OPERATION SUPPORT VEHICLES** 

**COMMUNITY OUTREACHES** 

205mil Ksh FIRE MANAGEMENT

**SCHOOLS & 24,000 STUDENTS FED** THROUGH FOOD PROGRAM



### **HEALTH** Programme

To ensure that the community benefits from our Health Programme, MWCT employs health staff, runs and supports several dispensaries and supplies medical equipment and essential drugs to the community.



















































### 59 homesteads

were visited for community health workshops.

# 269 girls

Received new sanitary products.

## 28 community

Sexual Reproductive Health & Rights campaign forums were held.

# 210 community

members were vaccinated for COVID-19

# 547 girls & 462 boys Attended a workshop on puberty

education & menstrual hygiene.





### LIVELIHOODS PROGRAMME

MWCT supports the Maasai to explore other income generating activities. While widespread illiteracy poses a challenge, MWCT pursues creative ways to build financial understanding and grow the capacity of the Maasai – especially women – to run profitable enterprises.

#### **GRASS SEED BANKS**

Moilo, Enkii, Inkisanjani, Langata, Enkusero, Olkaria

Areas

10 - 25

Local Women in Charge for each area

10 hectares

Project area

1.5 high electric fence

Ptotection 3,781 kgs

**Grass Seeds Harvested** 1.649

Grass seeds sold (at 500 Ksh/Kg)

Hay bales sold

200 Kshs (4 USD)

Per Hay bale sold

BEADING

120 Items sold

#### JUSTDIGGIT

32,996 bunds were dug in Olorika. 42,000 bunds were dug in Ilchalai. 33,600 bunds were dug in Rombo.

2 community meetings, 2 grazing committee meetings and 2 leaders meetings were conducted in each of the project sites.

Each of the projects created a direct livelihood through employment during the digging period - benefiting a total of 351 people and 4 community rangers in each site for a period of 2 years.

#### RANGELAND RESTORATION

Over 21,000 bunds were dug in Motikanju Conservancy (Rangeland Restoration of the Chyulu) and 3.5 km gulleys healed by pruning.

The project also positively engaged 100 casuals from the local community.

SUSTAINABLE MENSTRUAL PROJECT

Like many communities around the world, menstruation is still taboo in the Massai culture, even within families. Access to sanitary products is limited and for most, unaffordable. When girls have their period, they miss school, and a lack of hygienic solutions can lead to increased health issues.

This pilot project is in collaboration with The Mabel Foundation and the Period Company, where we surveyed 200 young girls in 7 schools that exist within the fringe areas of the group ranch (have limited access to health facilities). Each girl recieved a comprehensive kit, with reusable period underwear, washing materials, educational notes on menstrual hygiene and a personal period bracelet to monitor their cycle. During each distribution session, we conducted a thorough workshop on sexual health, reproduction and menstrual hygiene for both girls and boys. During our feedback surveys, we found that there was a significant decrease in girls missing school due to their periods after our distribution of the kits.

### **EDUCATION PROGRAMME**



Teachers employed

Support staff



### **ACHIEVEMENTS**

Inkisanjani primary school have the highest enrolment of pupils, each stands at 969 enrolments.

We continue to meet all the operational costs of Iltilal Kanzi Primary School, which includes but not limited to employment of 13 teachers, supply of school stationery, provision of tapped water, provision of solar power etc.

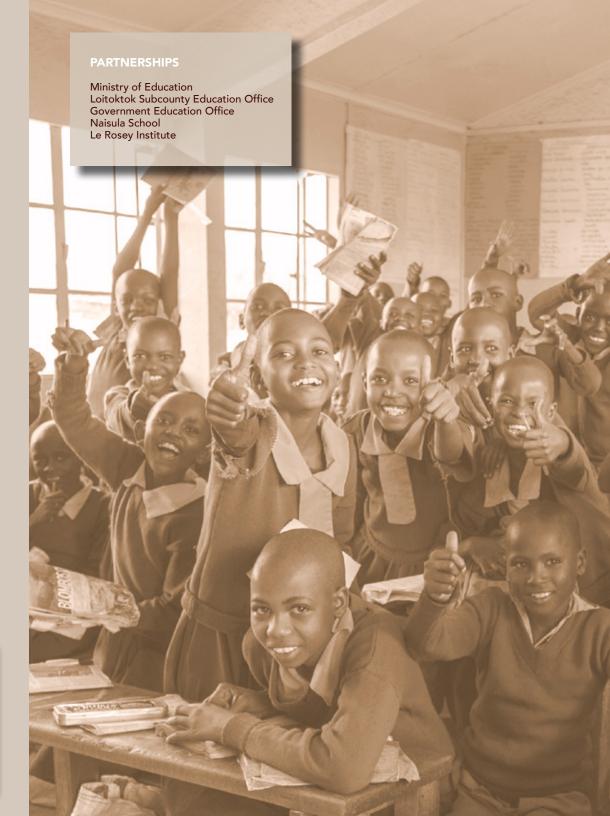
2 students have been successfully enrolled into Strathmore University.

The CHRP distributed a food program throughout KGR to help students during the drought.

The RRC sponsored **35** highschool students and **1** University student this year.

### **CHALLENGES**

All schools in Kuku Group Ranch experienced different levels of absenteeism due to the prolonged drought this



### **MWCT** FINANCIALS

**PROGRAMMES & ACTIVITIES** 

### **GRANTS**

MWCT is extremely grateful for all of the generous grants we have received throughout the year. A special thank you to MWCT's U.S arm, The Maasai Wilderness Conservation Fund, for continuing to help sustain the varying MWCT programmes for 2022.

### **FINANCIAL IMPACT**

CONSERVATION CONSERVANCIES

EDUCATION

HEALTH

\$114,936

\$1,700,689 \$424,181

\$414,089

\$240,572

CHARITABLE SERVICES
DELIVERY COSTS

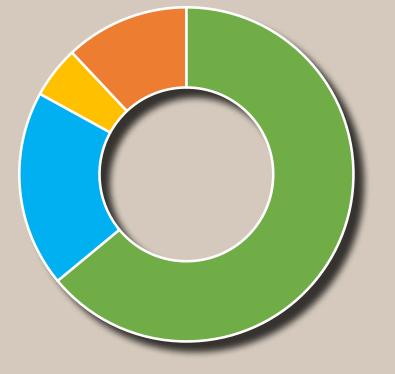
TOTAL \$2,894,468















# PARTNERS & SUPPORTERS THANK YOU - ASANTE SANA





