

## KARINGANI PROJECT HIGHLIGHTS

**NOVEMBER 2019** 

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# KARINGANI PROJECT HIGHLIGHTS TABLE OF CONTENTS

EXECUTIVE SUMMARY				
NATURAL & SOCIAL CAPITAL WHEEL				
ONE PLANET PRINCIPLES	4			
KURHULA COMMUNITY FARM				
GIVING BACK TO THE COMMUNITIES	9			
Social Capital Impact Projects				
Employment & Education	13			
Community Constitution	13			
Conservation & Environmental Education	14			
Healthcare, Educational Facilities & Equipment	1!			
Potable Water Provision	10			
Xinghana Lodge	10			
KARINGANI SECURITY	10			
Completion of the Border Fence	1			
Equine Anti-Poaching Unit (Eapu)	20			
K0 Heit	21			

21	
25	
27	
29	
31	
31	
31	
32	
32	
32	





## **EXECUTIVE SUMMARY**

Karingani, in southern Mozambique, is the largest privately managed tract of land within the Greater Limpopo Transfrontier Conservation Area.

Strategically, Karingani is vitally important to the conservation of the region - both because of its location, and because of the diversity of the habitats it protects. It is also a key component of the Greater Limpopo Transfrontier Conservation Area, which links parks and reserves in Zimbabwe, South Africa, and Mozambique.

Karingani has made a long-term commitment to supporting and uplifting our neighbouring communities by creating sustainable economic and employment opportunities, while helping to promote and preserve the local culture.

We have as much to learn from our neighbours about Karingani, as we have to teach them about conservation, project management, and the creation of a sustainable economy.

Our aim is to ensure that neighbouring communities see tangible benefits from our project through meaningful job opportunities, improvements to local infrastructure, health care, education, environmental education, increased entrepreneurial opportunities for small- and microsized businesses, and increased demand for skilled and semi-skilled work in everything from construction to tourism to anti-poaching campaigns.

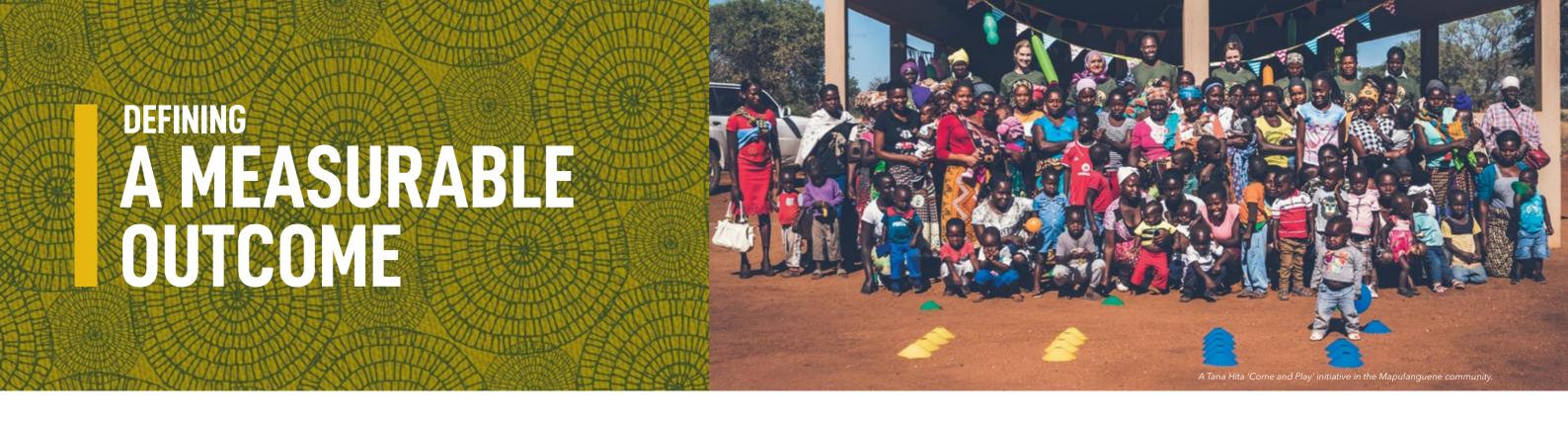
Karingani's continuing success will continually strengthen the partnership between ourselves, our investors, and our neighbours.

#### **OUR VISION**

At Karingani, we have an integrated and enduring vision, of becoming a world-leader in sustainable conservation. Our goal is to restore, enhance and maintain the natural ecological processes and biodiversity of Karingani through an effective and sustainable partnership between the Mozambican Government, private investors and participating communities.

#### **OUR PURPOSE**

Utilise, exemplify and demonstrate the viability of world-leading investor-funded sustainable conservation practice in order to re-establish and preserve the presence of wilderness and wildlife, alongside thriving and like-minded communities in this vast and strategically important habitat, which, without careful, long term responsible stewardship, faces the stark risk of being lost forever.



## NATURAL & SOCIAL CAPITAL AND SUSTAINABLE DEVELOPMENT WHEELS

Karingani introduced a new measurable standard in the 2018/19 Progress Report in the form of a Natural Capital, Social Impact (Fig1) & Sustainable Development wheel (Fig2). This wheel consists of seven wedges and scoring criteria has been assigned to each attribute within these wedges. This assists us in both reflecting and monitoring progress of our reflected Key Performance Indicators (KPI's) on an annual basis.

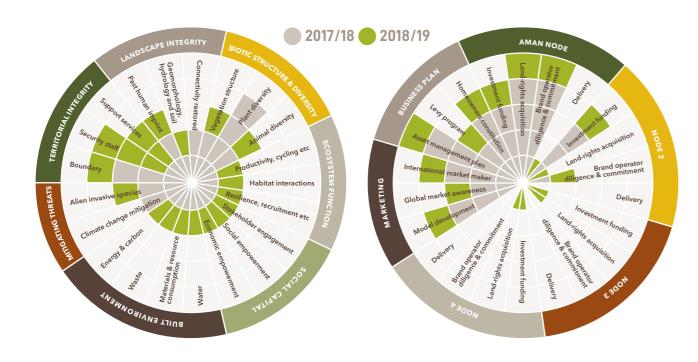


Figure 1 - Natural & Social Capital Wheel.

Figure 2 - Sustainable Development Wheel.

#### **ONE PLANET PRINCIPLES**

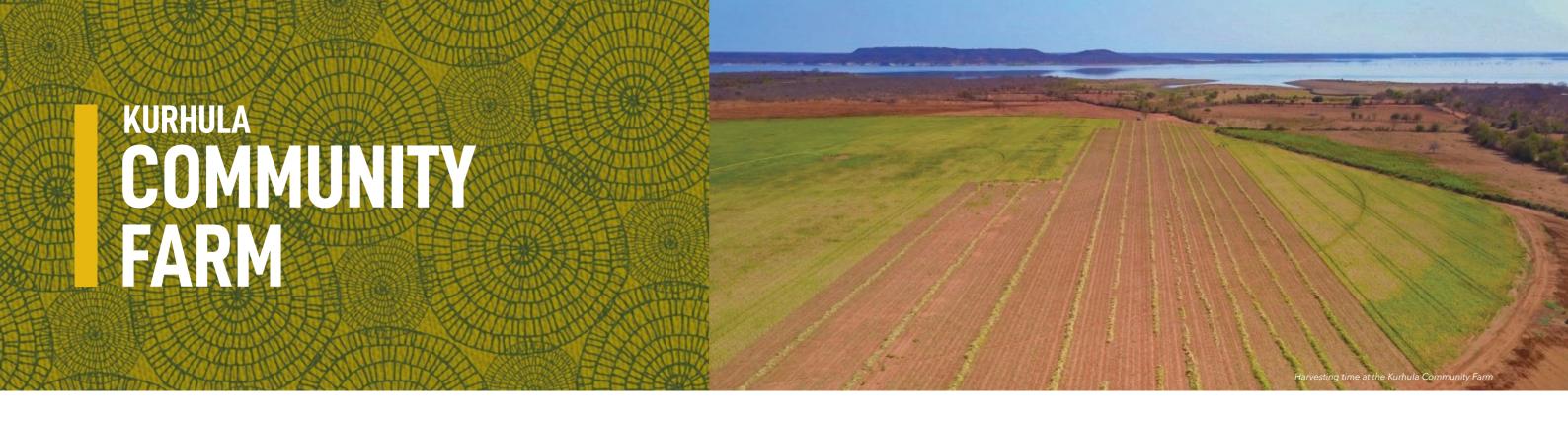
Karingani adopts ten 'One Planet' principles measuring our commitment towards sustainability (derived from the United Nations Sustainability and Development Guidelines, adopted in 2015 - URL: www.oneplanetnetwork.org/sites/default/files/one-planet-principles-jan-2017.pdf). Each of Karingani's KPI's reflect commitment towards these principles of sustainability.



Figure 3 - One Planet Principles.

- Health and Happiness
- Equity and Local Economy
- Culture and Community
- Land and Nature
- Sustainable Water
- Local and Sustainable Food
- Travel and Transport
- Materials and Products
- Zero Waste
- Zero Carbon Energy





## A PARTNERSHIP BETWEEN KARINGANI AND THE CUBO COMMUNITY









The aim of the project is to address food security and economic empowerment whilst at the same time providing training and skills development in farming, planning, implementation, business management and agricultural development.

July 2018 saw the Kurhula Community Farm development strategy being finalised and land preparation and centre-pivot irrigation of 14 hectares began for its first crop in the beginning of 2019.



### KURHULA MEANS PEACE IN SHANGAAN

As the first step in this partnership between Karingani and the Cubo Community, the concept of Kurhula was born.

The name symbolises the positive and cohesive relationship between Karingani and the Cubo Community towards a sustainable future.



Kurhula Community Farm workers harvesting sugar beans by hand in October 2019.

#### **EMPLOYMENT FOR THE CUBO COMMUNITY**







Kurhula Community Farm has made a significant impact on addressing unemployment within the community, as over 40 community members have been employed since its inception. Ali Mongoé (Cubo Community Youth Leader), has been appointed by the community as the Farms' foreman.

#### THE FIRST HARVEST







The first crop of sugar beans were planted in May 2019, meeting the projected targets of yield in October 2019.

A percentage of the beans were donated to community members that assisted with the harvest and the sales profit of the harvest was shared in the partnership between Karingani and the Cubo community.

The Kurhula Community farm has been a flagship project that emphasises the success of a 'Kurhula' partnership and has encouraged the interest of many of Karingani's other neighbouring communities.



Left to Right: Ali Mongoé - Kurhula Community Farm foreman. Example of sugar beans at the Kurhula Community Farm shortly before the harvest period. Ladies from the Cubo Community harvesting sugar beans by hand.



## SUPPORTING OUR NEIGHBOURING COMMUNITES



#### SOCIAL CAPITAL IMPACT PROJECTS









Karingani plays a vital role for upliftment in its neighbouring communities. Karingani aims to aid its neighbouring communities in employment, healthcare, food security, potable water provision and infrastructure requirements.

#### **HIGHLIGHTED PROJECTS**

- An ambulance purchased for the Mapulanguene Community
- A quad bike was purchased for Mrs Cecília Alione Cubai, a well-respected member and counsel leader and community head secretary. Suffering from polio Mrs Cubai unfortunately lost the use of her right leg when she was a child. The quad bike has had a significant positive contribution to her mobility.
- Approximately 1000 blankets were distributed to children in our neighbouring Communities.
- To encourage youth activities and sport development, Karingani donated 100 soccer balls to the youth.



Left to Right: Mr Jonas Mongoé handing over the quadbike Karingani donated to Mrs Cecilia Alione. One of 100 soccer balls gifted to one of the

#### **EMPLOYMENT & EDUCATION**







By constructing additional classrooms in the neighbouring communities Nyandlopfu, Mapulanguene, Mbakani and Cubo, Karingani has created more employment opportunities for government appointed teachers and provided learning facilities to accommodate more children.

Karingani's aim is to maximise and prioritise the employment of members from our neighbouring and surrounding communities. These employment opportunities allow the people to support and provide for their families and are beneficial to the health and well-being of Karingani's neighbouring communities.

As of 2019 a total of 147 of Karingani's full time employees are from neighbouring communities, which equates to approximately 65% of the total staff complement.

#### KARINGANI EMPLOYEES FROM NEIGHBOURING COMMUNITIES

Cubo	53	Ringani	13	Matsandzane	2
Nkanyani 3		Mbakani	1	Mapulanguene	35
Massingir	26	Nyandlopfu	4	Khumani	10



#### **COMMUNITY LIAISING OFFICERS**

Karingani has also employed two community liaising officers, Mr Jonas Mongoé and Mr Recson Manzine from Cubo and Mapulanguene respectively. Their roles are to interact with the neighbouring communities, maintain positive relationships, engage through educational presentations, counterpoaching initiatives, develop partnerships and commitment towards Karingani's long-term vision.

Left to Right: Mr Jonas Mongoé on his first day as Karingani's community liaison officer from Cubo.

## SUPPORTING OUR NEGHBOURING COMMUNITIES



#### **COMMUNITY CONSTITUTION**









On 16 April 2019, our team attended a meeting with the Cubo community, during which meeting the draft Community Constitution was presented to the community. The constitution was reviewed and discussed in detail. The community council has been given the opportunity to take the constitution to the rest of the communities to get their input.

On 17 April 2019, our team attended a meeting with members of the Mapulanguene community, during which meeting the draft Community Constitution was presented to the Mapulanguene community council. The constitution was reviewed and discussed in detail. The community council has been given the opportunity to take the constitution to the rest of the communities to get their input.



Left & Right: Presenting the first draft of the Community Constitution to the Mapulanguene Community Council at Sungulo Lodge, Karingani. First draft Community Constitution presented to the communities at Sungulo Lodge, Karingani

### CONSERVATION & ENVIRONMENTAL EDUCATION & AWARENESS









Our aim is to educate and create awareness among our communities on the importance of wildlife conservation, environmental management, human wildlife conflict and Eco-tourism.

#### **CONSERVATION & ENVIRONMENT EDUCATIONAL FIELD TRIPS**

It is important to teach children about conservation and the environment as it plays a vital role in the operations of Karingani.

Regular educational conservation-based field trips have been conducted for the children of several of the community schools in the form of guided game drives within Karingani in a custom built game viewing truck.

In all these events the feedback and engagement with the children has been so positive that we aim to schedule more regular excursions in 2020.

Five field trips have been completed with children from the following communities:

Cubo (15 children, 1 teacher), Mapulanguene (15 children, 1 teacher), Nkanyani (20 children, 2 teachers), Nyandlopfu (22 children, 2 teachers) and Khumani (20 children, 2 teachers).



Left & Right: Mr. Jonas Mongoé and children form the Cubo community on an educational field trip in Karingani.



#### **HEALTHCARE, EDUCATIONAL FACILITIES** & EOUIPMENT







- Karingani has constructed primary school classrooms in the neighbouring communities Nyandlopfu, Mapulanguene, Mbakani and Cubo.
- Teacher's housing was built in the Nyandlopfu, Mapulanguene, Ringani and Cubo communities.
- Outdoor play area equipment (a swing set, slide and roundabout) has been purchased & installed on the school grounds in the Cubo and Massingir communities.
- Chalkboards, desks and chairs were provided to the Cubo and Mbakani primary schools.
- A clinic was constructed in the Mapulanguene community.
- A fully equipped maternity ward was constructed in the Cubo community.



The Mapulanguene Clinic, constructed by Karingani

#### POTABLE WATER PROVISION









An intake pump system was installed for the Cubo Community, which provides potable water to 2 000 people from the Massingir Dam and boreholes were drilled and equipped with solar pumps, tanks and taps in the Mapulanguene Community to supplement their water needs.

Karingani is working towards a long-term plan of providing potable water from the Massingir Dam to several of our neighbouring communities, in the form of an extensive pipeline.









#### XINGHANA LODGE

Commemorating the friendship between Karingani and Cubo, the community lodge within Karingani will be named Xinghana - Friendship in Shangaan. Construction of this lodge has already commenced and its completion is expected in 2020.



A 3d perspective render of the proposed Xinghana Lodge in the northern section of Karingan





#### KARINGANI SECURITY







Our main security focus is to effectively and efficiently safeguard wildlife within the reserve as well as protect its neighbouring communities from potential Human Wildlife conflict

Considerable effort and emphasis have been placed in creating a well-trained, managed and motivated field ranger force for security operation in Karingani. This has been achieved despite an increase in the illegal pressures from outside the reserve.

The recent completion of the boundary fence and introduction of the Equine Anti-poaching and K9 units, have further increased the effectiveness of Karingani's world-class security and anti-poaching efforts.

#### **COMPLETION OF THE BORDER FENCE**

The last section of Karingan's boundary fence on the southern section adjacent to Mapulanguene has recently been completed. Karingani is now completely fenced, which is a tremendous achievement for human wildlife conflict and will prove to be a vital asset for both Karingani and its neighbouring communities.



Left to Right: Karingani scouts and K9 Absa at Karingani. The recently completed southern fence line bordering Mapulanguene.

#### **EQUINE ANTI-POACHING UNIT (EAPU)**









The EAPU remain to make significant progress in the counter-poaching arena of Karingani. It has allowed for a total re-distribution of field rangers into the higher incursion zones whilst competently covering and monitoring specified regions by the EAPU. The riders and the horses were conditioned towards chasing down poachers when sighted from a distance - in this regard, the EAPU has proven its ability to close the gap efficiently.

#### **K9 UNIT**









Introducing K9 capacity to the field ranger force will significantly contribute towards mitigating the factors that account for lost opportunity to make contact or apprehend poachers in Karingani.

The addition of K9 capacity to the ranger core decreases the dependence on visual tracking by the field ranger. Scenting dogs are able to follow the scent where visual sign is not present and thus allow the field rangers to maintain the follow up.



Left to Right: Karingani Warden Ellery Worth and K9 Keta. EAPU on patrol at Karingani.

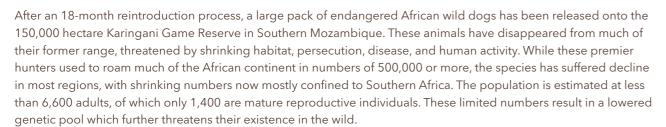




#### **ENDANGERED AFRICAN WILD DOGS** RE-ESTABLISHED IN SOUTHERN MOZAMBIOUE







"An ultimate benefit for conservation is Karingani's ability to deliver space and comprehensive protection for endangered species, as evidenced through this African Wild Dog reintroduction." - Ellery Worth, Karingani Warden.

This reintroduction forms part of the Wild Dog Range Expansion Project coordinated by the Endangered Wildlife Trust (EWT). One of the key components of this project is to expand safe space suitable for these predators. African wild dogs have become extinct in 25 of the 39 countries they once roamed, making them the second most endangered



Left to Right: Thirteen African Wild Dogs were darted at Pongola Game Reserve to be relocated to Karingani, Cole du Plessis (Endangered Wildlife Trust) and Ellery Worth (Karingani Warden) fitting a collar to one of the African Wild Dogs.



Left to Right: At 11:51pm, the first African Wild Dog sets foot on Mozambican soil in the boma at Mbilu, Karingani. The alpha female with two of the 8 week old pups which were born in the boma on Karingani

carnivore on the continent. Karingani Game Reserve, received a high score in the EWT's Reintroduction Feasibility Assessment, enabling its participation in the project.

Karingani's newly formed pack was sourced from two reserves in South Africa, both of which have lineage from some of the oldest wild dog populations in the sub-region. Seven males came from Zimanga Game Reserve and six females from Tembe Elephant Park. This has since led to the birth of four pups. Two original male and female groups met for the first time in Pongola Nature Reserve's wild dog holding facility where they were given the opportunity to bond as a pack before being relocated to Karingani. Ezemvelo KZN Wildlife, EWT, Wildlife ACT, ANAC and Saving the Survivors were all instrumental in ensuring Mozambique's first ever Wild Dog relocation into a private game reserve.

Karingani offers African wild dogs and other threatened species a unique environment to not only survive, but to thrive. Developed around an ethos of comprehensive conservation, Karingani boasts a fenced, protected and monitored wilderness with a diverse offering of flora and fauna.

#### SPECIAL THANKS TO

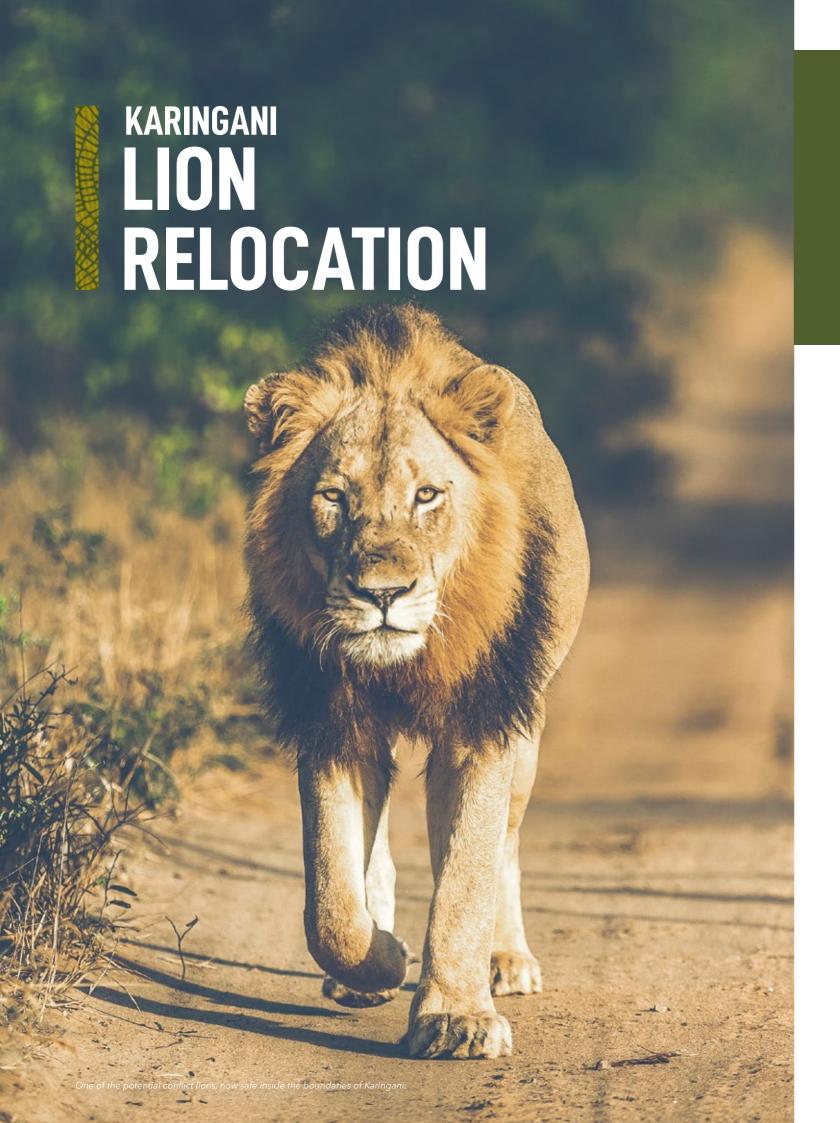










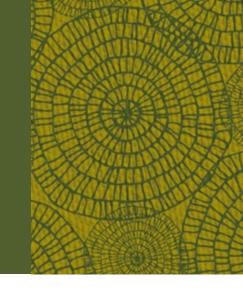


## Conservation and mitigating human wildlife conflict

The reality of human wildlife conflict is very apparent not only in Mozambique, but across the world. The possible way to avoid this, is by creating barriers or fences which separate the two from each other.

Karingani's border fence has proven vital for the safety of its wildlife and neighbouring communities.

Keeping wildlife inside the reserve ensures their safety from poaching and by keeping wildlife out of the communities it keeps community members livelihoods and crops safe as well.



#### PRIDE OF LIONS RELOCATED TO KARINGANI







Karingani's neighbouring community, Ringani notified authorities of a pride of lions living and hunting in close to proximity of their village and were afraid of what human wildlife conflict may occur.

In July 2019, Karingani, the National Administration of Conservation Areas (ANAC) along with Dr. Joao Almeida (Saving the Survivors) went out to search for the pride, and were very quickly located, darted and collared to be relocated to Karingani. This forms part of a greater collaboration with PPF, ANAC and Karingani towards the repopulation of key national parks within Mozambique.

The operation was completed and the pride of lions are being monitored via the satellite tracking collar, which was donated by Peace Parks Foundation.

In similar scenarios, the animals would be poisoned or hunted to avoid conflict, but Karingani would like to thank the Ringani Community for their actions, which have saved these endangered big cats' lives.

#### **SPECIAL THANKS TO**









Left to Right: Dr Joao Almeida fitting a satellite collar to the Male lion for monitoring purposes once released onto Karingani. The male lion and one of the younger females waking up from anaesthesia on Karingani.



#### Commitment to biodiversity and conservation.

Karingani's aim is to conduct and ensure on-going scientific research to determine and understand the key processes that underpin the ecosystem and identify the threats to these processes.

INTERNATIONAL RESEARCH AT KARINGANI







A research group from the KU Leuven University in Belgium, in conjunction with the North-West University (South Africa) and the Eduardo Mondlane University (Maputo, Mozambique) visited Karingani during March 2019. This is ongoing research will continue over the wet seasons of 2019/20.

A formalised MOU has been signed to encourage UEM inclusion in all research projects and proposals.

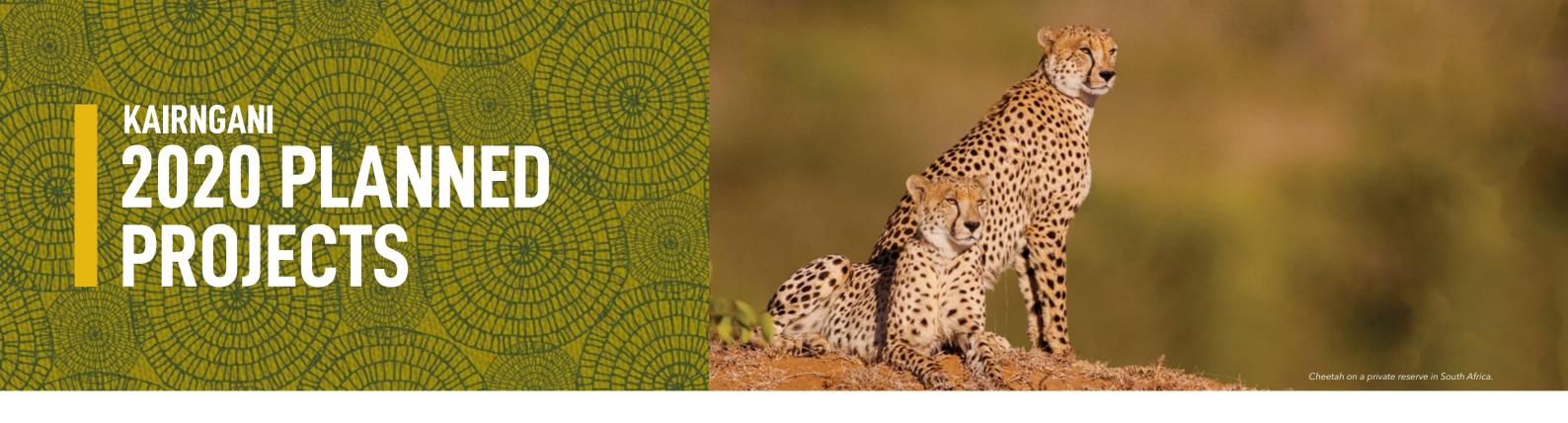


Top: 'Team Killifish' comprising KU Leuven University researchers, Eduard Mondlane University researchers and Karingani Staff.

Bottom Left: Macro photograph of a Fairy shrimp species collected from one of the pans on Karingani, showing developing eggs.

Bottom Right: Lungfish fry collected from one of the pans on Karingani.





#### **BIG CAT RELOCATION TO ZINAVE NATIONAL PARK**







Peace Parks Foundation and Karingani have been in discussions with the producer of the internationally renowned adventurer and survivalist, Bear Grylls to develop a conservation based series for international broadcast. Key aspects of this series will be focusing on the re-population of critical predator species (from Karingani) to Mozambique national parks co-managed with PPF. The international exposure of these conservation efforts within Mozambique will be superbly beneficial in showcasing public private partnerships, conservation effort and tourism in Mozambique.

**IN PARTNERSHIP WITH** 





#### **AMPHIBIAN AND FRESH WATER TURTLE SURVEY**







Collaboration with North West University and Eduard Mondlane University to conduct amphibian and freshwater turtle survey on Karingani, towards understanding the species composition and diversity of the reserve and the ability to manage and safeguard threats.

#### **BLACK RHINO RANGE EXPANSION PROJECT**







Expand the collaboration and MOU with ANAC for Mozambique to be part of the WWF Black Rhino Range Expansion programme with Karingani Game Reserve as the host site.



Left to Right: Bear Grylls, extreme survivalist and host of many popular TV shows (Image copyright www.bbc.co.uk). Serrated Hinged Terrapin basking in the sun. Black rhino at a watering hole in Kruger National Park.

#### CHEETAH POPULATION REINFORCEMENT







Karingani is in the early stages of negotiations with EWT to reintroduce cheetah to Karingani to establish a metapopulation in Mozambique to increase numbers of this critically endangered species. Karingani feels honoured to be considered for such a project, which is only possible due to the available space, suitable habitat, prey density and excellent border fence and security.

#### **COMMUNITY CENSUS**







Karingani is in the process of engaging with the neighbouring communities to design and establish a baseline of a census for our neighbouring communities. This census will allow us to gather vital information in order to accurately measure the needs of our neighbouring community members. Each individual will be added to Karingani's neighbouring community database, and this will afford them access to the needs Karingani has to offer as part of the community constitution agreement and measure the impact over time.

#### **COMMUNITY SOCCER TOURNAMENT**







Karingani is currently researching thefeasibility of a community soccer tournament, which will be hosted by our neighbouring communities. Any Mozambican community may enter the tournament. The goal of this tournament is to unite Mozambicans and create a countrywide awareness on Karingani's conservation and anti-poaching efforts.



Left to Right: Mapulanguene Soccer Team members. Maguiguana Day celebrations.

