VISION OF THE ZCT

Our mission at the Zululand Conservation Trust is a commitment to the conservation of endangered species whilst maintaining and supporting partnerships with neighbouring communities.

The Trust was established in 2011 to achieve a common dream between a group of devoted wildlife enthusiasts—our Trustees. In setting up the Trust, the fundamental needs to involve, empower, educate and support local communities to achieve effective and lasting conservation of our natural world was recognised.

In the 11 years since our inception, The Zululand Conservation Trust (ZCT) has developed partnerships with organisations within South Africa, and across the globe. We aim to use these partnerships to nurture our targeted regional conservation and community projects, in order to create a far-reaching impact throughout the greater Zululand region. Each year, we reflect on the years achievements and evaluate our way forward for the future.

In this last year, we were able to fund our projects through collaborations with our partners, through our fundraising efforts; and with generous donations from a variety of entities.

All funding goes towards our main divisions:
- Community upliftment - Projects with a keen focus to empower previously disadvantaged communities; and provide critical resources in food, water and clothing security.
- Wildlife Conservation - Projects targeted at preservation of endangered black and white rhino, cheetah, wild dog and Temminck’s pangolin
- Rhino protection with the focus on support for field rangers and our dedicated K9 unit
- The Zululand Rhino Orphanage

Four percent (4%) of all donations to the ZCT are assigned to our admin fees, enabling us to improve our effectivity on the ground. All donations we receive are tax deductible, can earn BBBEE points, and are allocated according to sponsors’ wishes.

We are pleased to share the forthcoming review on our accomplishments through 2022.
CEO'S REPORT

It is at this time of the year, when looking back at the impact of what has been achieved, I am pleased and humbled with what the Zululand Conservation Trust has been able to achieve.

These achievements are largely due to the efforts of the management team on the ground in Zululand, and of course to our loyal and supportive donors who are listed in detail in the body of this “Year in Review”. Thank you to one and all, we could not achieve what we have set out to do without you and your amazing and generous support. Whilst the achievements for the past year are covered in detail below I do need to make mention of a few highlights:

- After an absence of 2 Covid-related years, we once again hosted a full blown Rhino Ride in August. This event was brought to you by Investec, and what an event it was. There was an “out of school” atmosphere with riders, friends and partners and the entire team having so much fun. The success of the event was hugely boosted by the detailed planning and preparation of the Investec team – it's going to be a tough act to improve on, but improve we will.
- Our long term working relationship with Helping Rhinos UK continued with amazing support from them as it related to the Zululand Rhino Orphanage, Community upliftment and conservation range expansion.
- Sadly the rhino poaching crisis continued unabated and during the year the number of rhino orphans went from two to seven. However, during the year we released 3 animals back into safe, wild environments; and they continue to be monitored and are doing well.
- The funding of our 4th early learning facility, the Speakman Creche was facilitated by Helping Rhinos and was opened to the children during the year. We look forward to having Ron Speakman visit the facility early in 2023.
- The Food & Water sustainability drive (of which there are more details below), is a very meaningful and rewarding project, the success of which is clearly shown in the before and after pictures on page 17.
- An especially rewarding project has been the Temminck’s pangolin project. Whilst Manyoni has been a release site for the release of trafficked pangolins for 3 years, the care, soft release program with the associated daily shepherding satellite and telemetry tags is an expensive operation and it has always been a concern that this program could only be considered successful once the released pangolins started reproducing. Well, they rewarded us this year with 3 pups bred and born on the Manyoni Private Game Reserve – that truly made it all worthwhile.

Unfortunately, not every project undertaken is successful within the timing we give ourselves and our ‘range expansion’ drive was one where we did not make the progress that we hoped for, that being said it is still very much a goal that we are pursuing actively. The trustees and I are very proud at how little of the donated funding goes into the running of the ZCT, where all but 4% goes directly to the projects that the funds are donated for. Looking forward, the trustees and the management team have a strategy planning session in February, which I am sure will be positive and creative, and from which we will take the ZCT forward on our mission 'to save endangered space for endangered species, whilst uplifting and empowering local community members'.

I am so looking forward to the year ahead and all that is left is for me to say 'Thank you', to you for your interest and support.
MEET OUR TEAM

Board CEO and Trustees

From left to right: King Nkosi Zulu (Patron); David Attenborough (CEO and Trustee); Murray Collins (Trustee); Todani Moyo (Trustee) and Don Airton (Trustee)

Chief Operations Officer

Karen Odendaal

Karen has been part of the team since the inception of the ZCT and continues to play the essential role of managing the operations of the Trust, as well as the operations of the protected area's management body, Manyoni. In addition, she is spearheading the expansion of the protected area, a key priority of the ZCT in the long-term.
MEET OUR TEAM

Zululand Conservation Trust Project Manager

Cyanne Babilon
Cyanne joined the ZCT as project manager in 2022, her background is in ecology and conservation, but she has a keen interest in project management and the community empowerment programs.

Zululand Rhino Orphanage Manager

Simoné Marshall-Smith
Simoné has been part of the team since 2020, and her primary role is to manage the ZRO; however she also manages corporate conservation activities and the Pangolin Project.

Donald Davis
Pangolin Monitor

Sithembiso Makhanyela
Community Liason Officer

Flavia Casali
Rhino Carer

Nokwanda Mabuyakhulu
Rhino Carer
Expansion of the protected area

A key priority of the Trust to create meaningful change in the conservation sector and Zululand Region is to lease more land for conservation.

Development of the Mandlakazi food and water security project

The development of pilot commercial gardens in interested homesteads of the kwaMandlakazi region, and community gardens with allotments for households. Increase water security through installation of water storage at communities, with priority in the Gudlintaba and Vungama regions.

Expansion of the ZRO facility

Increase the capacity of the facility to maintain its ability to take in orphans at the current rate through staff hiring and building expansion. The expansion will include two Intensive Care units, and additional pole bomas.

Development of mechanisms to incentivize donations

A key mechanism to our projects becoming financially sustainable is to optimise our donation income, and create regular streams of income. This involves us incentivising donors, by expanding our means to be a CSI partner - by offering BEE points for community donations or registering with a carbon credit program.
The Zululand Conservation Trust is committed to developing and supporting the link between conservation of the environment and the well-being of communities adjacent to the protected area.

01 Expansion of the protected area
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FUNDRAISING
Rhino Ride - brought to you by Investec

Each year, the ZCT hosts its annual fundraising event - the Rhino Ride. This long-held tradition brings many return riders to complete the 70km route through the 'big-5' territory in Manyoni Private Game Reserve.

Rhino Ride 2022, hosted on 26-29 August was an enormous success, with an impactful R1,5 million raised from ticket sales and the auction, and an additional donation of R1 million! Thank you so much to Grant van Rooyen for his incredible donation to the ZCT, and for helping us make the reward of Rhino Ride 2022 lasting.

Our increased success this year is certainly be attributed to the following factors: Investec partnering with us for this year's Rhino Ride; a number of corporate groups who attended the ride; and that we were able to open the entries to the public following the lifting of COVID-19 pandemic restrictions.

We were able to host 228 riders and 26 non-riders in our main event; and an additional 34 attendees for Investec’s bespoke ride at Zebra Hills. Funds raised from Rhino Ride 2022 will be used to support the Zululand Rhino Orphanage and the Pangolin Project.
We express our heartfelt gratitude to Murray Collins and family, as well as the Bayete Team for opening up their space and allowing us to take over. Thank you to the Manyoni team, the property managers, guides and all other helpful hands who came through to setup the event, marshal the route and cater to all the attendees needs.

Copper Republic, Rhino Tears Wines, Republic Lifestyle, Encore Spar and Emma Coucourakis helped us stock jam-packed goodie bags. The Mobile Events Co. provided catering, and Sir Fruit sponsored health shots, smoothies, juice and Luckybird Syrups for the bars; as well as bar staff for the event. Sensiri hosted breakfast tables along the route, and Poison City Brewing sponsored beers for the drinks stop in the river. Medi-Response provided on-site paramedics to respond to emergencies, and riders enjoyed a post-ride massage for sore legs from the physiotherapists of Sensiri.

Sondela provided entertainment, and David Attenborough, Murray and our MC Keri Miller kept the pace on the auction - from which we were able to raise R142 000! Thank you to the following sponsors, who donated prizes to the auction: Zebra Hills Safari Lodge, Bayete Zulu Lodge, Rhino Sands Safari Camp, Machaba Safaris, and Leopard Mountain Safari Lodge. In addition, we ran a raffle with stays from Rhino River Lodge, African Spirit Game Lodge, merchandise from Lav Leather, and a stacked drinks cooler from the Watkins family; from which we raised R21 550.

Thank you to all our sponsors, without which we would not have been able experience the success of Rhino Ride, we are immensely grateful.

With this money raised, and the sponsorship funding from Investec, priority will be given to supporting our conservation projects. In particular, the pangolin project needs an additional monitor, and we intend to grow our K9 unit and resources for Rhino protection.

Save the date!

Rhino Ride 2023: 25 - 27 August
FUNDRAISING

General

Gala Dinner
The annual ZCT Gala Dinner was hosted at Mavela Game Lodge on 26 November. The night was well attended, and we are pleased to have raised R122 000 from the ticket sales and auction. Thank you to Bongani Mthethwa, Monique van Rensburg, Syanne Kirby and the Manyoni and Mavela teams. Thank you to Robert Rorich, Katalin Graue and Warrior's for Africa’s Wildlife, Jan Airton and the Platform Gallery for providing art pieces; as well as Sensiri and Thuleni Homestead for accommodation prizes for the auction.

Crowdfunding
There are a number of online platforms on which the Trust sources crowdfunding. The following projects are listed on the GlobalGiving and Benevity platforms: Zululand Pangolin Recovery and Research Node and Ranger Protect Cover for our Wildlife Warriors. These projects have raised R26 500 to date.

Partners
The Trust is pleased to partner with the following entities, who offer a percentage of their sales to our various projects: 3Lads and a Toucan, Jonnsons Workwear, OhHappyDay, Spar Rhino Firelighters, LAV Leather, ESJAY and MySchool. Thank you to the following partners for their ongoing support with fundraising and to our projects on the ground: Stichting RootsUp, Imbewu Yoshintso, Helping Rhinos, Dr Mike Toft, Project Rhino, ZAPWing, the Bateleurs, Over&Above Africa, the Kingsley Holgate Foundation, as well as Save a Child Foundation, the Domino Foundation, African Pangolin Working Group and African Conservation Trust.

Donors
Thank you to the following donors for their contributions to our projects, both physical and financial: Toyota South Africa, Innovation Group, the Victor Daitz Foundation, Textainer Equipment Management Ltd., Investec Bank Limited, The Expedition Project, Helping Rhinos, WildTomorrowFund, Denzil Andrews, Global Conservation Force, Spar Encore, Buzi Cash and Carry, Bo’s Plant and Tool Hire, Jim Green, Magnum Boots, Springbok Legends and Keegan Rhys-Daniels, Boucher Legacy, Wildlife Act, Sapmok, EPPS, All Industrial Supply, the Thole and Stevens families, Adam Riley and family; and the many donors who give via our website and online platforms.
The Trust has started placing an increased effort into sourcing funds from grants and long-term partners. The following grants were applied for in the 2022 period:

- **Department of Environmental Affairs, Forestry and Fisheries, Pesticide Action Network and the Global Greengrants Fund**: were approached for assistance with herbicide for the control of alien invasive species in the Mandlakazi region.

- **Council of Contributors**: An application was submitted for additional APU gear, including night lamps for the dog handlers; a GPS Collar for Thor and cellphone devices for each of the APU teams.

- **Save Pangolins/Pangolin Crisis Fund/Critical Ecosystem Partnership Fund**: Save Pangolins and the Pangolin Crisis Fund have accepted an unsolicited grant application for our pangolin program; and we will be applying for funding to cover the annual operating costs of the pangolin project.

- **Green Tourism Incentive Fund**: This initiative is funded by the Department of Tourism and Industrial Development Corporation. Successful applicants will receive up to R 1 million in “greener” water and electricity provision equipment and/or appliances and the ZCT is in the first phase of the application process.

- **Yes4Youth Program**: An application to become a partner of the YES4Youth program has been submitted, and if successful will create 16 new jobs as rhino monitors, recycling plant officers, community extension officers, pasture management officers in the communities and habitat management officers in the protected area.

- **MySchool**: The Trust has been accepted as a beneficiary of the MySchool program. Anyone can register ZCT as a beneficiary for their MySchool card or app, and a portion of their purchase from Woolworths or the MySchool affiliated partner comes to ZCT.

- **African Conservation Trust**: ACT, in partnership with the ZCT, is currently employing 120 people on a short-term contractual basis, to assist with alien invasive plant clearing in the community land adjacent to the reserve. The project will run for 9 months and a second phase is expected in 2023.
COMMUNITY PROJECTS

Creche Projects
**Communty Projects**

**Crèche Projects**

A key component of the ZCT strategy is improving access to safe spaces, food and water security, and access to early childhood development. As such, we support four creches, which provide early education and daily meals to approximately 170 children in the kwaMandlakazi region.

**Opening of Speakman’s Crèche**

We are pleased to announce that our fourth community creche was opened in February 2022 and immediately took in 25 students between the ages of 6 months and 5 years old. The school was officially opened on the 14th of February by Helping Rhinos founder and CEO, Simon Jones; Nkosi Zulu; all the Mandlakazi community Ndunas; the Zululand Conservation Trust team, the teacher, cook and members of the community.

Speakman pre-school is our 4th community crèche and fills a large gap in the Mandlakazi community where nearly 60 children were not receiving any pre-school education. We cannot express our gratitude enough to our donors, Save a Child Foundation and Helping rhinos, who provided the funds for this much needed preschool; as well as the volunteers who completed the artwork on the walls of the creche.
Crèche Projects

Repairs and Renovations
The Trust is pleased to report that the renovations of three creches which we provide support to - Mbuzeli Crèche, Mzamoyethu Crèche and Bhejane Crèche, are underway and due to be completed by July 2023. The planned upgrades are to install toilet buildings, repair and repaint the interior and exterior walls, improve the facilities and access for the teacher and cook, improve storage, repair the leaks in the roofs and broken windows, and provide new seating and educational materials for the teachers and students.

This is a significant financial undertaking, and we are extremely grateful to Helping Rhinos, the Kingsley Holgate Foundation and the Victor Daitz Foundation for their financial support to the project. At 2022 year end, construction on the toilets and all concrete work: screeding floors, replastering walls, installation of concrete slabs outside buildings; as well as the painting had been completed. Thank you to Kingsley Holgate, Sheelagh Antrobus, Michael Mfisa and Lucky Molepo for their hard work painting and brightening up the creche buildings; as well as for providing new educational materials for the teachers and students for 2023.
Creche Events

Winter Warmer
For our Winter Warmer drive this year, we were able to distribute 150 parcels to children at the Speakman, uBhejane and Mzamoyethu Crèches; as well as to the Manyoni Anti-Poaching Unit. A big thank you to Christa Bird for her donation of meals and easter eggs for each child; and Julia Nicholson and Warriors for Africa’s Wildlife for their donation of knitted blankets, toys, scarves and gloves to each of the children and APU members.

Crèche Christmas
For Crèche Christmas 2022, we were able to distribute 192 personalised parcels to children aging from 2-months old to 9 years old in the Speakman, Mbuzeli, Mzamoyethu and uBhejane Crèches; the children of the kwaSekane community; and the teachers and cooks of the crèches. Each child received a backpack with toiletries, clothing, a stationery case and stationery, snacks and a toy. Thank you to Lahaf Lifestyle, Warriors for Africa’s Wildlife and Christa Bird for their unfailing support to the ZCT.

Book Drops
Thank you to Adam Riley, Mark Daniel and his late grandmother Irene Morris for their significant book donation to the Trust. We were able to distribute the books to all four creches, as well as Manyoni and Obane Primary Schools in September, to much gratitude.
COMMUNITY PROJECTS

Food Security
COMMUNITY PROJECTS

Food and Water Security

The Trust is proud to partner with Imbewu Yoshintso, an NPC founded in 2021. Our partnership is focused on addressing food and water security in the kwaMandlakazi region, in recognition of the intimate link between human and environmental well-being.

The model of this project is to create sustainable food gardens, which provide a nutritious food source to children in the crèches, create economic empowerment opportunities by selling the surplus produce, and skills development in the communities by training community members who work in the garden. Imbewu assists with the planning, implementation, seed supplies, tools and mentorship.

Crops grown at the various creches include nutritionally dense fruit and vegetables; and crops which can sustain the hot and sometimes dry environment. Imbewu has partnered with the Future Farmer program, and placed a designated intern with accredited agricultural training at each creche garden directly, to assist with food production and garden development. The Trust provides substantial support to the project by assisting with labour, materials and funding. The Trust has been successful in securing funding in this year to repair pipelines to the Mbuzeli and Mzamoyethu Crèches, as well as the Vungama and Gudlintaba Communities.

Progress at the uBhejane Crèche garden. This garden in particular has been a flagship of the project, raising money for the creche from garden sales; attracting volunteers and becoming the pride of the community.
Food and Water Security

Crèche Gardens
The Mzamoyethu Crèche Garden has been experiencing success with a majority of their crops, in particular lima beans - which can be stored and are being incorporated into the children's diets daily. Speakman garden has had a 7500l rainwater storage system installed, which is providing enough water to the garden to grow surplus food, which the crèche is selling. uBhejane Crèche has had the most success with selling surplus fresh goods, and they have been using the funds to purchase meat for the children and pay electricity bills.

SA Rugby Legends Food Drop
We are grateful to the South African Rugby Legends, The Domino Foundation and SA Harvest for the donation of 150 food parcels for the Nkukweni, Sekane and Vungama communities in January. The SA Rugby Legends and their families joined us for the food drop, and we would also like to thank Hlekani Homestead for assisting us with a truck to do the food drop.

Matric Camp Food Drop
This year we provided support to the Senzokuhle and Mandlakazi High Schools for their annual matric camp, hosting 104 students for 7 weeks. We were able to do two food and supply drops in November, including basic dry goods, meat rations, mattresses; fresh supplies from our partners, Imbewu Yoshintso; as well as hygiene products and breakfast porridges from our partners, The Domino Foundation. Thank you to all our donors and partners who made these food drops possible.
School Game Drives
In June, we were able to host our annual community game drives for 120 students from the Manyoni and Obani Primary Schools. They were able to enjoy a full morning game drive and a lunch stop, where we hosted conservation education conversations. Thank you to the lodges of Manyoni Private Game Reserve for providing guides and vehicles to this project.

Hlabisa Big-5 Soccer Event
In November, one of Manyoni’s Anti-poaching rangers- Mr Velesile Dlamini - was able to attend the Big-5 Hlabisa soccer tournament in Hluhluwe on behalf of the trust. In addition to handing over a donation of soccer uniforms and soccer balls, he did a talk on poaching and why conservation is important to over 600 children.

Manyoni Soccer Tournament
The Trust is proud to have partnered with Goodman Mafuleka for the annual Manyoni Soccer Tournament once again. This year the tournament had a total of 24 participating teams, and the Trust sponsored all trophies, medals and cash prizes for the tournament. This soccer tournament is focused on providing safe and healthy recreation activities for community members over the December holiday period.
CONSERVATION PROJECTS

EarthRanger
EarthRanger is an online tracking tool, which allows managers to have access to real-time data on security incidents; wildlife movements; tracking devices and environmental records.

Developed by Vulcan Inc., in partnership with conservation and technology establishments, Earthranger allows the integration of subjects such as vehicle trackers, GPS collars for wildlife, cellphone tracking, fence and energizer sensors; and allows an unlimited number of users to record data. This has a multitude of applications, but at the moment is proving most useful to the following:

<table>
<thead>
<tr>
<th>Key Indicator</th>
<th>Activity</th>
<th>Outcome</th>
</tr>
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<tbody>
<tr>
<td>Increased Wildlife and Alien Plant Monitoring</td>
<td>Multiple users can record wildlife sightings and alien plant invasions</td>
<td>• Real-time and widespread detection of important data</td>
</tr>
<tr>
<td>Improved Rhino Data Tracking</td>
<td>Sightings can be reported by all users, and integrate into the WWF reporting tool seamlessly</td>
<td>• Pressure relieved on rhino monitors to find all rhino daily, and improved reporting efficiency for our WWF mandate</td>
</tr>
<tr>
<td>Monthly Patrol Data</td>
<td>Patrol tracking of duration, events and locations patrols cover.</td>
<td>• Ability to see all patrols and their data in a single space, allowing managers to easily identify gaps and &quot;hot-spots&quot;</td>
</tr>
<tr>
<td>Geofence Break Notifications</td>
<td>Immediate alerts to pangolin monitors and managers when pangolins move into &quot;unsafe&quot; spaces</td>
<td>• In October to December, 5 different pangolins could be reset to prevent them from crossing the reserve fence</td>
</tr>
</tbody>
</table>
CONSERVATION PROJECTS

EarthRanger

A glimpse of Earthranger on a daily basis - giving an overarching geographic picture of important data to inform management decision making.

Two examples of the applications of data collected in EarthRanger, which can quickly and easily be generated: A heat map of two collared elephant's movements over a month, and a map of a vehicle's tracks in a month.
CONSERVATION PROJECTS

Leopard Monitoring Project
CONSERVATION PROJECTS

Leopard Monitoring Project

Manyoni’s leopard population is relatively low compared to the other parks in the area, and this is the primary reason for the leopard project. We would like to identify causes of poor population performance and determine whether there are management interventions which can be taken to improve population performance.

Leopard are elusive animals, and when not habituated to vehicles or people, can be difficult to monitor through conventional means. To overcome this challenge, camera traps which can remotely monitor leopard individuals, are placed strategically along areas which leopards frequent. Every leopard is individually identifiable by their unique spots or rosette pattern, and cameras are positioned with this in mind to capture the left and right flanks of each animal. This allows us to create an identity kit of all the leopard individuals on Manyoni.

Although we focus on the leopard on Manyoni, leopard are not confined to singular areas as they are able to cross fence lines between properties easily. This is an important means for the spread of genetics, but also means that leopard often move through unsafe areas and can come into contact with people. This increases the risk of human-wildlife conflict through real or perceived livestock loss, or the increased risk of poaching for their skin and body parts.
Leopard Monitoring Project

2021 recap – We ended 2021 with the Intaba female (LF6) and her two six month old cubs captured frequently on camera in the south west of the park, the Msunduze male dominating the south of the park especially since his younger rival was found dead. Two new females discovered in the south east of the park named Thomboti (LF7) and Umfula (LF10), one of those females was observed mating by the guides.

2022 – Intaba and her two cubs were responding to a site in the south west of the park consistently until around May. However one of the cubs went missing soon after and then Intaba and her remaining cub also disappeared from that area. She may have been detected again in the north west of the park during the Panthera census of Manyoni, which ran for a duration of 45 days and ended in December. Her cubs will have been close to dispersal age, and we are collaborating with our neighbouring properties to determine if her cubs have moved out into their areas. Aside from monitoring successes, we are pleased to report that the leopard are becoming increasingly habituated to vehicle and human presence, and we are seeing increased sightings of leopard to game viewing vehicles.
CONSERVATION PROJECTS

Temminck's Pangolin Project
Temminck's Pangolin are secretive, nocturnal animals that form part of the most heavily trafficked mammal species on earth. Locally extinct for 70 years, Temminck's pangolin were first re-introduced to Zululand by the ZCT in collaboration with the African Pangolin Working Group (APWG) and Johannesburg Wildlife Veterinary Hospital in 2019.

2022 marks the third year for the pangolin project, and it has been a great one. The project takes in pangolins that have been rescued from the illegal trade, and with the coordination from APGW, we complete the rehabilitation and release of these pangolins. Release can be described as "hard-release", where the individual is placed straight into the reserve, or "soft-release", where individuals are taken out on a daily basis and monitored to ensure that they are feeding. The survival rates of pangolins that go through a hard-release are low, and as such we undertake the expensive, and time-consuming process of soft-release to ensure all our individuals survive. Even once fully-released, we continue to monitor all released individuals to ensure their continued survival, with the added benefit of being able to collect essential data for research into these elusive animals.

One of the main aims of the project was to introduce a successful breeding population of pangolins. At the beginning of this year, mating in the wild was seen on multiple occasions for the first time here on Manyoni. The second half of the year brought three completely new wild pangolin pups! This is a significant milestone for the project, and shows us that these pangolins have adjusted to their new home, and that we can expect more pups in the future. Rehabilitation and introduction of new pangolins that have survived the illegal wildlife trade has continued this year with the full-release of Stevie and Chamomile. Dithlong and Pippa are currently in the soft release program and will be fully-released in 2023 if they maintain their current weight-gain schedules.
CONSERVATION PROJECTS

Soft-release pangolins - Updates

Dithlong
Nicknamed Ditsi, this has been the smallest pangolin we have received from African Pangolin working Group; arriving at 3.9kg. Ditsi refused to take milk at the Veterinary Hospital and in her nine month stay there only put on 300g. The decision was thus made to move her into soft release to see if she would do better, and in nine months of soft release she has put on 1.5kg. She will be ready for release sometime in February 2023.

Pippa
Our Newest arrival Pippa is currently adapting to her new home. She is also a young pangolin, weighing 4.5kg. She is very food motivated, it is likely that she is going to be growing quickly. We expect her to reach her release weight in the spring of 2023.
Soft-release pangolins - Updates

Stevie
Stevie was released in early 2022 and has made remarkable progress, despite being one of our youngest pangolins. He has already reached a total weight of 11kg and is one of the biggest males we are monitoring. He is starting to explore more of the protected area and will hopefully settle and make his own territory within the reserve.

Chamomile
Weighing over 12kg, Camomile arrived as a mature female. After a four day soft release, she was ready to be set free and has settled wonderfully. While we have not had any indications of her having any pups yet, she has been visited by at least two males. We will continue to monitor her burrows closely for any indication of new offspring.

A true record of the success of the project has been the birth of three wild pangolin pups.
CONSERVATION PROJECTS

Zululand Rhino Orphanage
CONSERVATION PROJECTS

ZRO - Orphan Updates

The Zululand Rhino Orphanage (ZRO) has experienced unparalleled success since its inception in 2017. Starting off with two rhino orphans and a hippo calf, the facility has seen the successful rehabilitation and release of eight white rhino and two hippo orphans. 2022 marks the fifth year of the ZRO, and the facility has had to take in a number of rhino orphans in the 2021-2022 period due to high regional poaching rates. We are very pleased with the progress our rhino orphans have made this year.

Tweed

Tweed arrived at the ZRO on 5 March, weighing 166kg and estimated to be 3 months old. He very quickly adjusted to taking milk from a bottle. After a week, he was introduced to Leko - who has been in the facility since April 2021 - and the two immediately bonded. Tweed closed off the year weighing 550kg and is maintaining a strong bond with Leko within the crash.

Bindi

Bindi arrived on 26 April, weighing 248kg and estimated to be 6 months old. Her capture was stressful and as a result she suffered capture myopathy. She took approximately 10 days to stabilise, and did not take milk in this time. She has never adjusted to taking milk from a bottle, but drinks successfully from a bowl and closed off the year at 576kg.
Vikela
Vikela arrived two weeks later, on 10 May, from the same reserve as Tweed and Bindi, with his mother also having been poached. His starting weight was 297kg and he was estimated to be 7 months old. He was very skittish and did not adjust to drinking milk from bottle, however he was bonded to Tinni and then settled down and now drinks from a bowl. His weight has increased to 626kg and he has remained very settled with the rest of the crash.

Mnene
Mnene arrived at ZRO just two days after Vikela - a busy time indeed. Her starting weight was 126kg and she was estimated to be 2 months old. She calmed and accepted a milk bottle quickly, and was soon bonded to Bindi and Vikela. In July, she developed a resistant bacterial infection, but with some intensive care she recovered and closed off the year weighing in at 380kg.

Unnamed Orphan
This orphan arrived 4 days after Mnene, weighing 550kg and estimated to be 16 months old. Because of his age, he struggled to adjust to the level of care given in the facility. After 3 days of not eating or drinking, he was collared and released. He bonded to a similar aged calf in the wild, and the two continue to be monitored.
Ukuthula arrived at ZRO on 23 October weighing 105kg and estimated to be 6 weeks old. He was an unexpected arrival, as the influx of orphans had settled down, but the facility responded quickly and was able to stabilise him. He immediately took milk from a bottle and received rhino plasma to strengthen his immune system. Within two weeks he was out with the rest of the crash, and weighed in at 169kg at year-end.

![Ukuthula](image)

Our rhino orphans are weighed weekly, as their weight determines their milk intake and can alert us to any potential health concerns. We also use the data to compare the individuals progress. Leko arrived at the orphanage when he was just a day old, and therefore never received any rhino milk from his mom, resulting in him being compromised. It is interesting to see what effect this has had on his weight gain compared to some of the other orphans that arrived at the facility when they were a bit older.
CONSERVATION PROJECTS

ZRO - Partners and Donors

The ZRO depends on the financial contributions of its partners and donors. The facility also receives assistance from paying volunteers, and allows limited guests to visit the facility and observe milk feeds, in order to generate income and conduct environmental education.

Partners

Helping Rhinos has been in partnership with the ZCTZRO since the facilities inception. Through their partnership, the facility has been able to:

1. Care for seventeen rhinos and two hippos
2. Release six rhinos back to the wild
3. Expand the orphanage facility to double its capacity
4. Install security cameras on all rhino bomas
5. Upgrade to the orphanage perimeter security fencing
6. Upgrade of the rhino ambulance

Donors

The ZRO facility is grateful to the following entities, who donate a percentage of all their sales to the facility: 3Lads and a Toucan and Spar Rhino Firelighters; and Qualchem who continuously donate cleaning supplies. We are grateful for all financial and physical donations that we receive, and special mention goes to Investec, Anne and Stephan Colle, Warriors for Africa’s Wildlife and Julia Nicholson, Wild Tomorrow Fund, SATIB, Container Conversions, The Expedition Project, All Industrial Supply, Craig Seath and Toyota South Africa for their support to the ZRO in this last year.
Thank you to all donors, sponsors, volunteers and guests to the ZRO facility, who have enabled us to remain financially viable, and at the end of 2022 begin looking at expansion of the project.
CONSERVATION PROJECTS

K9 Anti-Poaching Unit
K9 Anti-Poaching Unit

Reaction time plays a critical role in the success rate of operations and responses to security threats. Historically, the Manyoni PGR has had the ProjectRhino KZN K9 unit on call, but in order to improve our responses to security incidents in and around the Protected Area, we endeavored to establish our own K9 unit.

In the 2022 period, the ZCT and Manyoni PGR were fortunate to secure a generous sponsorship from the Global Conservation Force (GCF). The GCF is a United States-based non-profit organisation that assists conservation entities across the globe with funding, training and equipment for conservation security.

The GCF has assisted us with two tracking dogs, and our first arrival was Thor in May. Thor is a Bavarian Mountain Hound, who travelled to us from the Netherlands with his trainer Wesley Visscher from Scent Imprint for Dogs. Wesley spent ten days training the anti-poaching unit and Thor’s new handlers to make the best use of Thor’s skills. Thor specializes in tracking human and pangolin scent, and as such is going to be instrumental to the Pangolin Monitoring project, as well as his use in security.

Thor has continued to perform exceptionally in Pangolin tracking exercises, and one of our goals for the future is to have Thor assist us with monitoring pangolins that have lost their satellite tags, or whose tags have stopped working. Thus far, this method has proven to work, with Thor successfully relocating Rusty for the first time in 2 years in early November.
K9 Anti-Poaching Unit

At the time of Thor's handover training, high "drive" was observed in the Security Manager's dog, Veela, by Scent Imprints Trainer Wesley. Because we were in the process of establishing a K9 unit comprising multiple canines, Wesley strongly encouraged the team to train Veela. She is a German Short-Haired Pointer, and she has quickly developed scent detection skills. Although she only had nine days of training, she has maintained a 100% find rate on human scents on tracks between 500m and 1km in her training sessions since.

Our next canine, Rolo, joined us in August. Rolo is a Dutch Shepard and was bred in South Africa. He was trained to specialise in human scent detection at the Kilo9 Tracking Academy, and has been donated to the reserve by GCF. Rolo and his trainer, Josh Gilson, spent 3 weeks together in Manyoni to train his new handlers, providing a valuable opportunity for the anti-poaching canine handlers to improve their operational tactical tracking and man-trailing skills.

Thus far, we have been fortunate to not have had any operational tracks with dogs. However, we continue to do weekly training with all the dogs to keep them prepared, and our handlers are showing progress with bond development with their canines, and reading their dog's behavioural signs.
FINANCIALS 2021-2022
FINANCIALS

Community Projects
We are grateful to all our donors and sponsors for our community projects. This is a difficult sector of our project portfolio to incentivize donations, and as such we frequently have a shortfall in our budget.

The following projects are funded on a donation basis: Matric Camp, Crèche events and Crèche Build/Upgrades. The remainder of the projects are part of the operational expenses of the portfolio, and a focus will be placed on securing additional funding for these projects in the 2022-2023 period to minimise the shortfall. Thank you to The Expedition Project, MySchool, Lahaf Lifestyle, Oricol Environmental Services, Textainer Equipment Management Ltd., The Victor Daitz Foundation and Helping Rhinos for their donations to our community projects.
FINANCIALS

Conservation Projects

We are grateful to all donors and sponsors to our conservation projects. In the 2021-2022 period, wild dogs had to be removed from the protected area as the pack had become accustomed to breaching the boundary, and this posed a human-wildlife conflict risk to the dogs. Because of the pangolin project, increasing voltage on the fence is not an option, and this meant that the dogs needed to be moved off the protected area until another pack can be sourced; and a solution to the fence problem found. We are positive that another pack will be introduced in the next year and that we have found a solution that keeps both pangolins and the wild dogs safe. The surplus of project funding will roll over and be put towards the wild dog reintroduction.

Thank you to the following donors for their contributions to the conservation projects: 3Lads and Toucan; Toyota South Africa; the Innovation Group; FStop Foundation; WildTomorrow Fund, Wildlife Act and Over&Above Africa.

Thank you to the guests from Manyoni Private Game Reserve and the area who support the conservation projects by promoting guest participation in our pangolin walks, K9 tracking experiences and exclusive darts.
FINANCIALS

Summary

Fundraising Projects

Income

R2,000,000

R1,500,000

R1,000,000

R500,000

R0

Expenses

R300,000

R200,000

R100,000

R0

Expansion of the Protected Area

Income

R300,000

R200,000

R100,000

R0

Expenses

Merchandise Sales

Income

R150,000

R100,000

R50,000

R0

Expenses

Operational Expenses

Salaries: R162,551

Accounting: R80,249

Consumables: R25,800

Consulting Fees: R65,700

Donor Management and Marketing: R76,976

Maintenance: R287,698
**DONATIONS**

Not all of our donations received are financial, and the physical donations we received in the 2021-2022 period contributed significantly to the Trust's success. Thank you to all the donors who helped us make meaningful change this year.

<table>
<thead>
<tr>
<th>Department</th>
<th>Donor</th>
<th>Item</th>
<th>Quantity</th>
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<tbody>
<tr>
<td>APU</td>
<td>Global Conservation Force</td>
<td>Trained APU Dogs</td>
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<tr>
<td></td>
<td></td>
<td>Training of handlers and dogs</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>First aid and suspect approach training</td>
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<td>Jim Green</td>
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<td>AR8 Boots</td>
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<td>Dog food</td>
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<td>Ghillie Suits</td>
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<td>Lightforce Infrared Illuminative Spotlight</td>
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<td>Keegan Daniel</td>
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<td>WAW- Winter Warmer</td>
<td>All Industrial Supply/Craig Seath</td>
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<td>Springbok Legends</td>
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<td>Food Drop</td>
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<td>WAW - Winter Warmer</td>
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</table>
Thank you to all the staff, trustees, donors and supporters for your contributions in the 2021-2022 period - we can't do it without you.

Thank you
Karen Odendaal
Lammert Kruger
Samantha Kruger
Chase Kurucz
Simone Marshall-Smith
Sithembiso Makhanyela
Nokwanda Mabuyakhulu
Dane Antrobus
Donald Davies
Olwen Jakumeit
Isabel Rill
Flavia Casali
The members of the Manyoni Private Game Reserve staff and anti-poaching unit for their tireless work in the ZCT protected area.

"In the end we conserve only what we love. We will love only what we understand. We will understand only what we are taught."
-Baba Dioum

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Report prepared by Cyanne Babilon