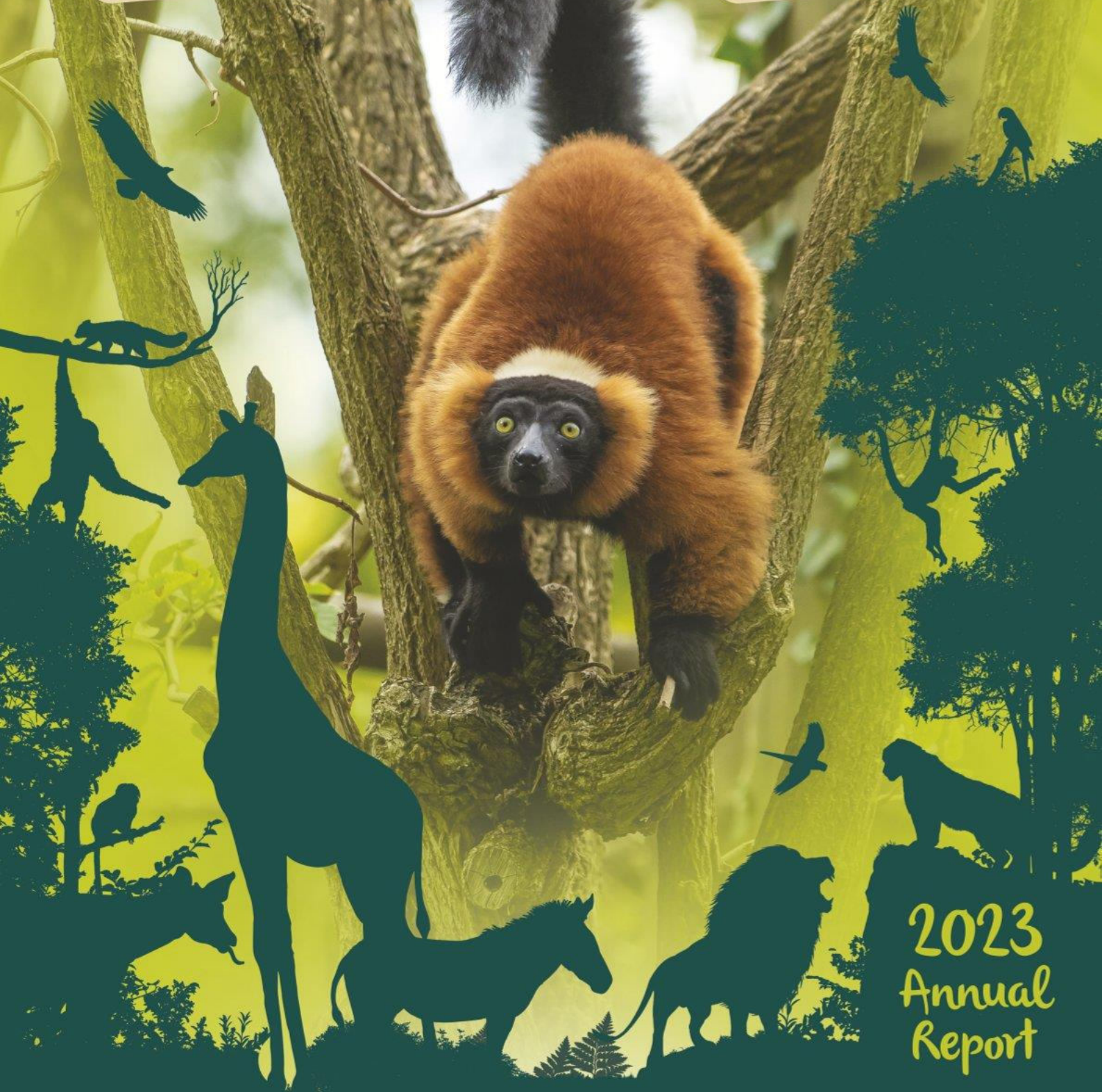




BIOPARC
CONSERVATION



BIOPARC
ZOO DE DOUÉ-LA-FONTAINE



2023
Annual
Report

NATURE PROJECTS

The Bioparc works alongside people around the world to protect wild biodiversity, by supporting Nature Projects. Supported by local stakeholders, Nature Projects respond to the needs of ecosystems and people, to encourage positive and sustainable cohabitation.

The Nature Projects are funded by visits to the Bioparc, by the partners we mobilise and by donations to our Bioparc Conservation Fund. They also receive our support and expertise. For some of them, we create a direct link between animals born at the Bioparc and wild populations by reintroducing them into the wild.

Together, we are working to preserve wildlife and natural habitats, while enabling the people who share these territories to also reap the benefits.



THE NATURE PROJECTS [DEFINITION]

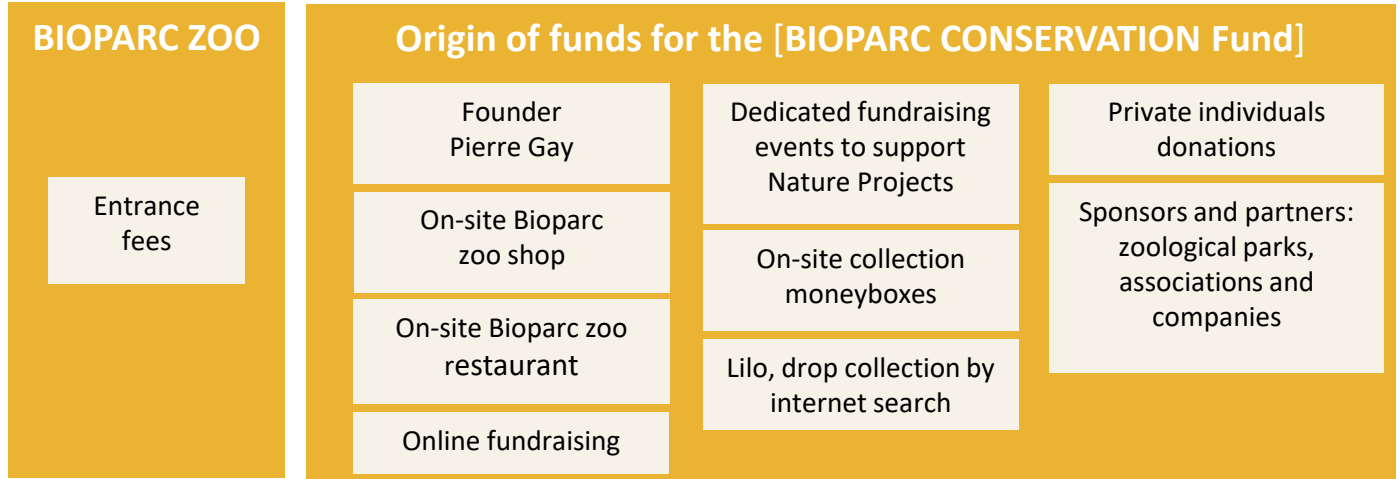
The Nature Projects respond to the needs of ecosystems and people, to encourage positive and sustainable coexistence. Supported by local actors that we are financing and supporting, they take the form of multiple complementary actions and involve the local human populations, which is a guarantee of sustainability and a condition for their success.

- **PROTECT WILDLIFE:** care center, reintroduction, anti-poaching, population monitoring
- **SUSTAINABLE HABITAT MANAGEMENT:** reforestation, creation of protected areas, community management
- **RAISE AWARENESS:** debates, environmental festival, radio programs, nature outings, school workshops
- **PROVIDE ECONOMIC SOLUTIONS:** training, micro-credit, ecotourism
- **IMPROVE SOCIAL CONDITIONS OF POPULATIONS:** water access and healthcare

OUR COMMITMENTS

FUNDS MOBILIZED FOR CONSERVATION

We raise funds for the Nature Projects thanks to the income generated by the Bioparc’s entrance fees and the donations made to our Bioparc Conservation Fund. All funds are donated to the associations supporting the Nature Projects.



NATURE PROJECTS SUSTAINABLY FINANCED

The funds mobilized are donated to the associations running the Nature Projects to cover their operating costs.



ASSOCIATIONS SUPPORTED ON A DAILY BASIS

We share our expertise and offer associations on daily basis. From the Bioparc and in the field, we favour multicultural approach based on listening and continuous exchanges.



REINTRODUCED ANIMALS FROM BIOPARC

Bioparc contributes to reintroduction programmes in place in the field and entrusts them with animals born at Bioparc in order to increase the local wild animal population.



RAISING AWARENESS

Enriched by our experience, we at Bioparc highlight the missions and actions of the Nature Conservation Projects we endorse, both with our visitors and within our networks, to raise awareness about the importance of protecting biodiversity.



NATURE PROJECTS SUPPORTED IN 2023



NATURE PROJECTS AFRICA

- ▶ Conservation of the last herd of giraffe in West Africa *with the Association to Save the Giraffes of Niger*
- ▶ Sustainable conservation of a primary forest in Madagascar *with Antongil Conservation*
- ▶ Protection and monitoring of the red ruffed lemur in Madagascar *with the Primate Study and Research Group (GERP) and Impact Madagascar*
- ▶ Preserving Rothschild's giraffes in Kenya *with Moyo*
- ▶ Protection of okapi in the Congo *with Okapi Conservation Project*
- ▶ Protection of cheetah in Somaliland *with Cheetah Conservation Fund*
- ▶ Conservation of dama gazelle in Senegal *with the Special Wildlife Reserve of Gueumbeul*
- ▶ Conservation of Grevy's zebra in Kenya *with Grevy's Zebra Trust*
- ▶ Protection of black rhinoceros in Kenya *with avec Solio Game Reserve*
- ▶ Conservation of Egyptian vultures in Algeria *with Tlemcen Model Forest Association*
- ▶ Conservation of Egyptian vultures in Niger and Chad *with Sahara Conservation*
- ▶ Conservation of endangered species in Senegal *with the Boundou Community Nature Reserve Conservatory*

NATURE PROJECTS SOUTH AMERICA

- ▶ Restoration of the dry forest ecosystem of the Chaparri Ecological Reserve in Peru *with Tu Tierra*
- ▶ Conservation of Andean condor in Argentina *with BioAndina*
- ▶ Conservation of hyacinth macaw in Brazil *with Instituto Arara Azul*
- ▶ Protection of brown-headed spider monkeys in Ecuador *with Washu*
- ▶ Protection of brown spider monkey in Venezuela *with Proyecto Mono Araña (Spider Monkey)*
- ▶ Preservation of red-fronted macaw in Bolivia *with Armonia*
- ▶ Preserving the Hidden Valley in Peru *with Machacuay Community & Conservation*

NATURE PROJECTS EUROPE

- ▶ Preservation of vulture populations in France *with Hegalaldia, wildlife care centre and Fund for Wild Flora and Fauna (FWFF)*
- ▶ Conservation of Egyptian vulture in France *with Nature in Occitania (National Action Plan) and with the PACA region Conservatory of Natural Areas (CEN PACA)*
- ▶ Action against illegal poaching of migratory birds *with Committee Against Bird Slaughter (CABS)*
- ▶ Reintroduction of Northern bald ibis in Spain *with Proyecto Eremita*
- ▶ Restoration of the La Janda lagoon in Spain *with the Amigos del Pericon*
- ▶ Protection of bats in Anjou *with the Pays de la Loire Conservatory of Natural Areas and the Anjou LPO.*
- ▶ Planting a mini-forest in a secondary school in Anjou *with La Maison des Arbres, Saumur Terres d'Avenir, and the Jane Goodall Institute France*
- ▶ Roots & Shoots youth programme in France *with the Jane Goodall Institute France*
- ▶ Preservation of hedgehog populations in Anjou *with Noctis Hérisson et SOS hérissons 49*

NATURE PROJECTS ASIA

- ▶ Conservation of Sumatran tiger in Indonesia *with PKHS*
- ▶ Conservation of snow leopard in Mongolia *with Snow Leopard Trust*
- ▶ Population study of the Javan leopard in Indonesia *with OFORA Foundation*
- ▶ Conservation of red panda in Nepal *with Red Panda Network*
- ▶ Songbird conservation in Indonesia *with Prigen Conservation Breeding Ark (PCBA)*

NATURE PROJECTS WORLD

- ▶ Projects to preserve endangered species *through annual support to the French Association of Zoological Parks (AFdPZ) (18 projects, not presented on the map)*

FIGURES FOR 2023

RESIDUALS 2022 - OWN FUNDS BIOPARK CONSERVATION **€4,547**

| RESSOURCES | COLLECTED | DONATED |
|---|--------------------|--------------------|
| Bioparc de Doué-la-Fontaine | €149,908.22 | €149,908.22 |
| Visitors' entrance | | |
| Contribution to the salaries of conservation staff | | €21,160.5 |
| Fonds de dotation Bioparc Conservation | €400,906.96 | €374,117.62 |
| Founder Pierre Gay | €18,000 | |
| Collection moneyboxes at the Bioparc | €11,170.9 | |
| Bioparc shop | €5,000 | |
| Bioparc Design Office | €3,000 | |
| The rounds number up of the Bioparc shop | €2,582.35 | |
| Bioparc Race | €2,230 | |
| Other fundraising events : sculptures, concert, stand and Animal Embassies | €5,630 | |
| Companies and partners | €279,471.54 | |
| Private individuals | €73,822,.11 | |
| Operating expenses | | €6,923.97 |

€4,165,382 DONATED SINCE 2001

€524,025.84 DONATED TO THE NATURE PROJECTS

N°1

OF DONATING ZOOS
COMPARED TO ITS RESOURCES



OUR IMPACT IN 2023



Why do we measure our impact?

- Demonstrate the positive impact of our actions for our beneficiaries
- Evaluate our actions and improve them if necessary
- Communicate on the projects and promote the support received and provided for the projects



Distribution of the funds donated

70 % Bioparc Conservation

30 % Bioparc – Zoo de Doué-la-Fontaine

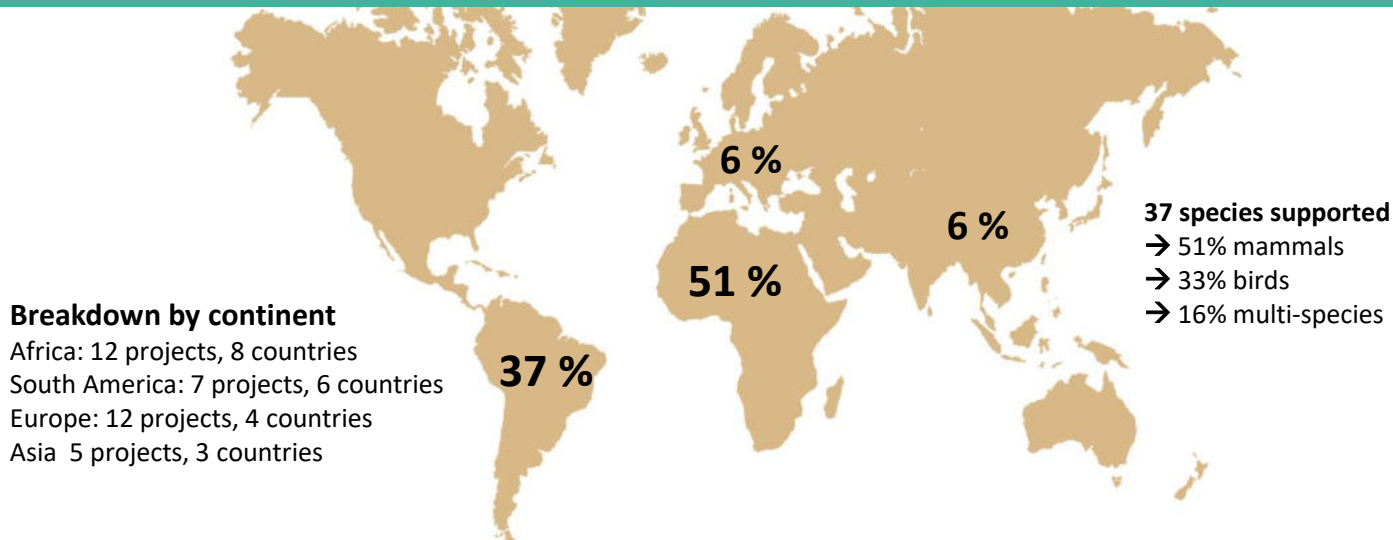


Distribution of support received

- **35 zoological partners**
 - 25 French partners account for 25% of donations
 - 4 European partners, representing 4% of donations
 - And 2 American partners, representing 10% of donations
- **89 corporate sponsors**
 - 73 local partners, representing 84% of the funds
 - And 16 national partners, representing 16% of the funds

OUR IMPACT IN 2023

Distribution of funds by continent



37 projects supported

26 of which are local NGO projects, receiving 80% of the funds
 3 projects supported for +10 years and 12 projects supported for +15 years
 => 40% of projects supported for 10 years or more

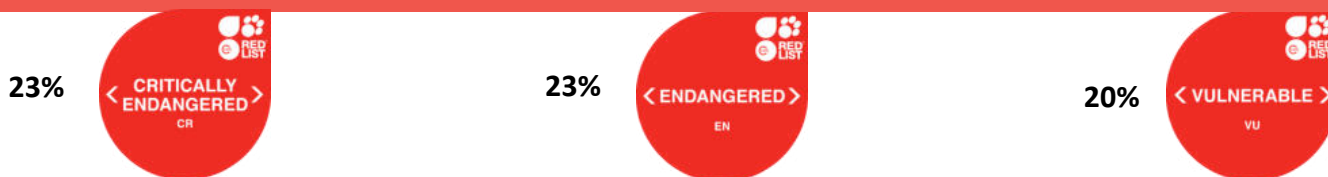
Since 2023, Bioparc Conservation is a



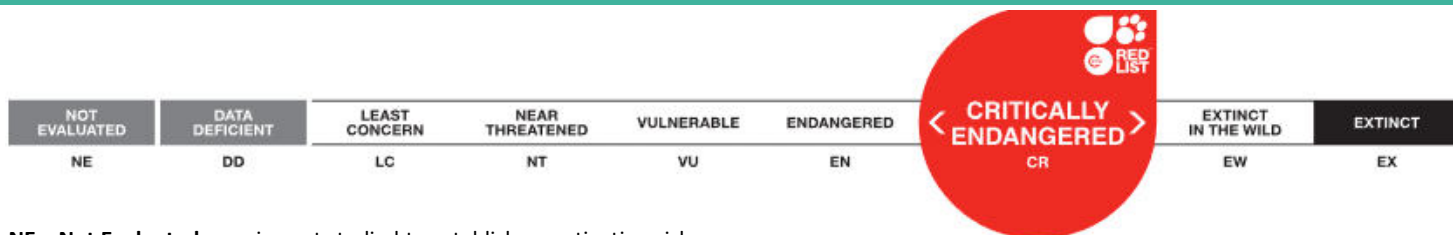
and of



Among the species supported



IUCN Red List categories and criteria:



- NE – Not Evaluated:** species not studied to establish an extinction risk
- DD – Data Deficient:** not enough information to assess an extinction risk
- LC – Least Concern:** when the species is considered common, with no apparent population decline or threat or conservation action underway
- NT – Near Threatened:** when a species is close to the criteria for Vulnerable or may approach it in the future.
- VU – Vulnerable:** when the range is limited, the population is declining, the abundance of the species has decreased, or there are threats to the species despite conservation measures in place.
- EN – Endangered:** limited range, limited and fragmented population, very high threats to the species which is highly threatened with extinction in the wild.
- CR – Critically Endangered:** when an endangered species is facing imminent disappearance or extinction due to population size and decline, range and a risk of extinction of at least 50% within the next 3 generations or 10 years
- EW – Extinct in the Wild:** species only found in captivity or outside their historical range.
- EX – Extinct:** species considered extinct, with no living representatives in the wild or in captivity.

THE NATURE PROJECTS AFRICA (1/2)

| Country | Species and /or habitat concerned | Structure supported | Mission/action | Funds provided in 2023 |
|--------------------|--|---|--|--|
| NIGER | Giraffe in West Africa | ASGN - Association to Save the Giraffes of Niger | Saving the last giraffes in West Africa is achieved by helping the villagers who live near them. By restoring a positive cohabitation, the number of giraffes increases and the local people improve their daily lives. | <i>Bioparc Pilot Nature Project</i> €99,178 |
| MADAGASCAR | Tropical rainforest Lemur (Red ruffed lemur) | Antongil Conservation & GERP: Study and Research Group on the Primates of Madagascar & IMPACT MADAGASCAR | Protected by the NGO and its local community, the Farankaraina forest is home to a remarkable biodiversity. Its sustainable management, coordinated with villagers' needs, protects 1,660 ha of tropical rainforest and its collection of endemic species. With GERP's and Impact Madagascar's expertise, Antongil Conservation conducts a reintroduction program for the red ruffed lemur. | <i>Bioparc Pilot Nature Project</i> €70,436.64 |
| KENYA | Rothschild's Giraffe | MOYO | Moyo wants to help preserve the wildlife and biodiversity at the Kigio Conservancy in Gilgil. | €47,770 |
| KENYA | Grevy's zebra | Grevy's Zebra Trust | GZT intervenes in El Barta plain to protect the Grevy's zebra and the natural resources of this area. | €12,588.46 |
| SENEGAL | Dama gazelle | Special Wildlife Reserve of Gueumbeul (RSFG) | RSFG is a 720-ha protected area where the members act in particular to save the last wild herds of Dama gazelles. | €8,000 |
| NEW IN 2023 | | | | |
| KENYA | Black rhinoceros | Solio Game Reserve | Solio is the world's oldest and largest black rhino protection and breeding reserve. | €6,400 |
| CONGO | Okapi | Okapi Conservation Project | Okapi Conservation Project protects the largest population of okapi in the heart of the Ituri forest. More than a hundred rangers fight poaching on a daily basis and local people are supported in improving their living conditions. | €5,019 |
| SOMALILAND | Cheetah | Cheetah Conservation Fund | CCF is dedicated to saving the cheetahs in the wild and preserving its ecosystem. | €5,000 |

A big THANK YOU to the partners who supported the following projects in 2023:

ASGN: ADECC – LE CÈDRE, BNI Loire Saumur Business, CERZA Conservation, Château de Fosse-Sèche, CHP Formation, Distillerie Combier, Fauna, Festyland, Fondation Le Pal Nature, Girafon Bleu, La Fabrique des Bières d'Anjou, La Puyfollaise de Restauration, Maison Perrotte, Parc Animalier de la Barben, Parc Animalier et Botanique de Branféré, Payote, Parc Zoologique et Botanique de Mulhouse, Réserve Africaine de Sigean, SECAS, Sodexo, Touroparc Zoo, Zoo de Champrépus, Zoo de Maubeuge, Zoo du Bassin d'Arcachon et l'Association Bassin d'Arcachon Conservation.

Antongil Conservation and Impact Madagascar: Association pour le Développement Scientifique et Pédagogique du Parc de l'Auxois, Caves Louis de Grenelle, Chase Sanctuary & Wildlife Reserve, Festyland, Loisirs Diffusion, Nashville Zoo, Pairi Daiza Foundation, Parc Animalier de la Barben & Écofaune, Parc Animalier d'Auvergne & Play for Nature, Zoo de Champrépus, Zoo Neuwied, Zoo de la Palmyre, Zoo du Cannel des Maures, Zoo d'Upie, Zoo Santillana del Mar.

THE NATURE PROJECTS AFRICA (2/2)

| Country | Species and /or habitat concerned | Structure supported | Mission/action | Funds provided in 2023 |
|----------------------------|---|---|--|------------------------|
| ALGERIA | Egyptian vulture | Tlemcen Model Forest Association (AFMT) | The Egyptian vulture being very rare in the west of Algeria, the AFMT follows the pair historically installed in the National Park of Tlemcen. | €4,315 |
| <small>NEW IN 2023</small> | | | | |
| NIGER / CHAD | Vultures including the Egyptian vulture | Sahara Conservation | Recent studies have identified Niger and the Chad Basin area as the largest clusters of vulture habitats in West Africa, harbouring significant populations of six highly threatened species of vulture: Rüppell's, lappet-faced, white-backed, white-headed, Egyptian and hooded vulture. | €3 000 € |
| <small>NEW IN 2023</small> | | | | |
| SENEGAL | Aadvark and other species | Boundou Community Nature Reserve Conservatory (RNCB) | The RNCB is a protected area created in 2009. It covers 120,000 hectares. The reserve has a dual objective of preserving natural resources and ensuring the sustainable development of local communities. | €3,000 |

And a big THANK YOU to the partners who supported the following projects in 2023:

Moyo: Bureau Environnement Voirie & Assainissement, Cabinet Pilte, Creative Imports, Equilibre Structures, Girafon bleu, GT2I, YEO.

Special Wildlife Reserve of Gueumbeul: Safari de Peaugres, Rotterdam Zoo.

Grevy's Zebra Trust: Association Calendriers Solidaires, Association Kibouj.

Tlemcen Model Forest Association: Puy du Fou France.



NATURE PROJECT GIRAFFES OF NIGER

COUNTRY: **Niger**

SUPPORTED ASSOCIATION: **Association to Save the Giraffes of Niger - ASGN** (8 people)



The last of West Africa's giraffes and the only representatives of the subspecies *Giraffa camelopardalis peralta*, these giraffes were once spread by thousands from Senegal to Niger. Decimated by the expansion of cultivated areas, hunting and the progression of desertification, they became isolated in the 1980s in the south-east of Niger in a populated area, marked by the livestock and millet cultivation. In 1996, they were only 49 of them left.

Since then, their population has continued to grow (they would be about 700 today), thanks to the actions of **ASGN**: a Nigerian association created in 2001 which supports human populations living in the giraffe's range, to support their involvement in the preservation of this endangered species to ensure a sustainable coexistence.

ASGN monitors the giraffes and their habitat, raises awareness and supports the villagers through the development of income-generating activities, and carries out actions to improve agricultural production and the installation of collective infrastructures.

These activities make the Association to Save the Giraffes of Niger a recognized local actor in the resolution of human-animal conflicts and the conservation of giraffes.

Project supported since 2001

FUNDS DONATED IN 2023:

- BY THE BIOPARC: €35,418
- BY BIOPARC CONSERVATION: €63,760

DAILY SUPPORT OF THE BIOPARC

Actions in 2023

- Rehabilitation of 30 ha of degraded land in 14 days of missions thanks to the mobilisation of more than 2,530 people, including 1,380 women, for the creation of half-moons and the planting of seeds of plant species appreciated by giraffes.
- Construction of two market garden wells in Gourou Kaina, in the commune of Harikanassou, to enable the development of vegetable gardens and optimise the water supply for the local population.
- Distribution of €132,000 in micro-credits for income-generating activities over the year to 2,435 women engaged in livestock rearing, small-scale trading or vegetable gardening..

! Update on the political situation !

Since the change of government in Niger this summer, the ASGN has been able to continue all its activities in the field. The ASGN even took part in the West African giraffe census in August.

The ASGN team, like all Nigeriens, is particularly affected by the rising cost of living, electricity cuts and the new rules for withdrawing money from the bank.

Your support for the ASGN in 2024 is therefore more important than ever!

An influential association, the ASGN is the only one that has been present in the field for 20 years alongside the giraffes and the villagers!



NATURE PROJECT RED RUFFED LEMUR

PAYS : COUNTRY: **MADAGASCAR**

SUPPORTED ASSOCIATION: **ANTONGIL CONSERVATION** (13 people), **GERP & Impact Madagascar**



Antongil Conservation, with its experience, has been entrusted by the government with the protection of 1,660 hectares of forest.



Antongil Conservation, a Malagasy NGO created in 1999 with the help of the Bioparc, works to protect the biodiversity of Antongil Bay in the north-east of Madagascar. The bay is home to some of the last large areas of primary tropical rainforest on the island. A few patches remain between these large areas, such as the coastal forest of Farankaraina, 1,660 hectares of forest protected and managed by Antongil Conservation. Home to a remarkable and threatened biodiversity, these areas and the future of the local inhabitants are threatened by the exploitation of natural resources, slash-and-burn farming, wood cutting, pillage of precious woods and hunting pressure on lemurs. The Malagasy team, with the sustainable support of the Bioparc, is working to raise awareness of the importance of protecting these resources and to implement actions that will improve the living conditions of the communities.

The Farankaraina forest is thus managed in collaboration with the 10 bordering villages so that its protection is sustainable and beneficial to all.

Project supported since 1999

FUNDS DONATED IN 2023:

- BY THE BIOPARC: **€30,000**
- BY BIOPARC CONSERVATION: **€40,436.64**

CO-CREATOR OF THE NGO
DAILY SUPPORT OF THE BIOPARC

Actions in 2023

- Twice a week, the Antongil team welcomes groups of schoolchildren from Maroantsetra to the tomato frog village and educates them about the protection of this species..
- Antongil Conservation has purchased and distributed school supplies to schools in the villages bordering the Farankaraina forest.
- The Ankila dam, built in 2013, has been repaired and will now supply 200 ha of rice fields on which several Navana families depend!
- In collaboration with GERP (Groupe d'Étude et de Recherche sur les Primates de Madagascar) and Impact Madagascar, a biologist came to monitor the remaining red varis to be translocated in the Farankaraina forest. Translocation should take place in 2024!



NATURE PROJECT ROTHSCHILD'S GIRAFFE

COUNTRY: **KENYA**

SUPPORTED ASSOCIATION: **MOYO**



Moyo Association was created in 2021 to preserve the wildlife and biodiversity of the Kigio Conservancy in Gilgil, Kenya, in partnership with local communities, on more than 1,400 ha. For several years, the living conditions of the various species present have been deteriorating. In addition to giraffes, the species present include zebras, impalas, Thomson's gazelles, warthogs, buffaloes and monkeys. Moyo's mission is to reverse this trend in order to bring the ecosystem back into balance.

Rothschild's giraffe (*Giraffa camelopardalis rothschildi*) is considered near-threatened as of 2016, with less than 1,500 mature individuals remaining in the population. There are 18 giraffe populations in Uganda and 14 in Kenya.

In addition to natural predation by hyenas, lions, crocodiles and leopards, Rothschild's giraffes are threatened by poaching, traditional hunting and habitat degradation.

Project supported since 2021

FUNDS DONATED IN 2023: €47,770

By Bioparc Conservation for the overall functioning of the association.

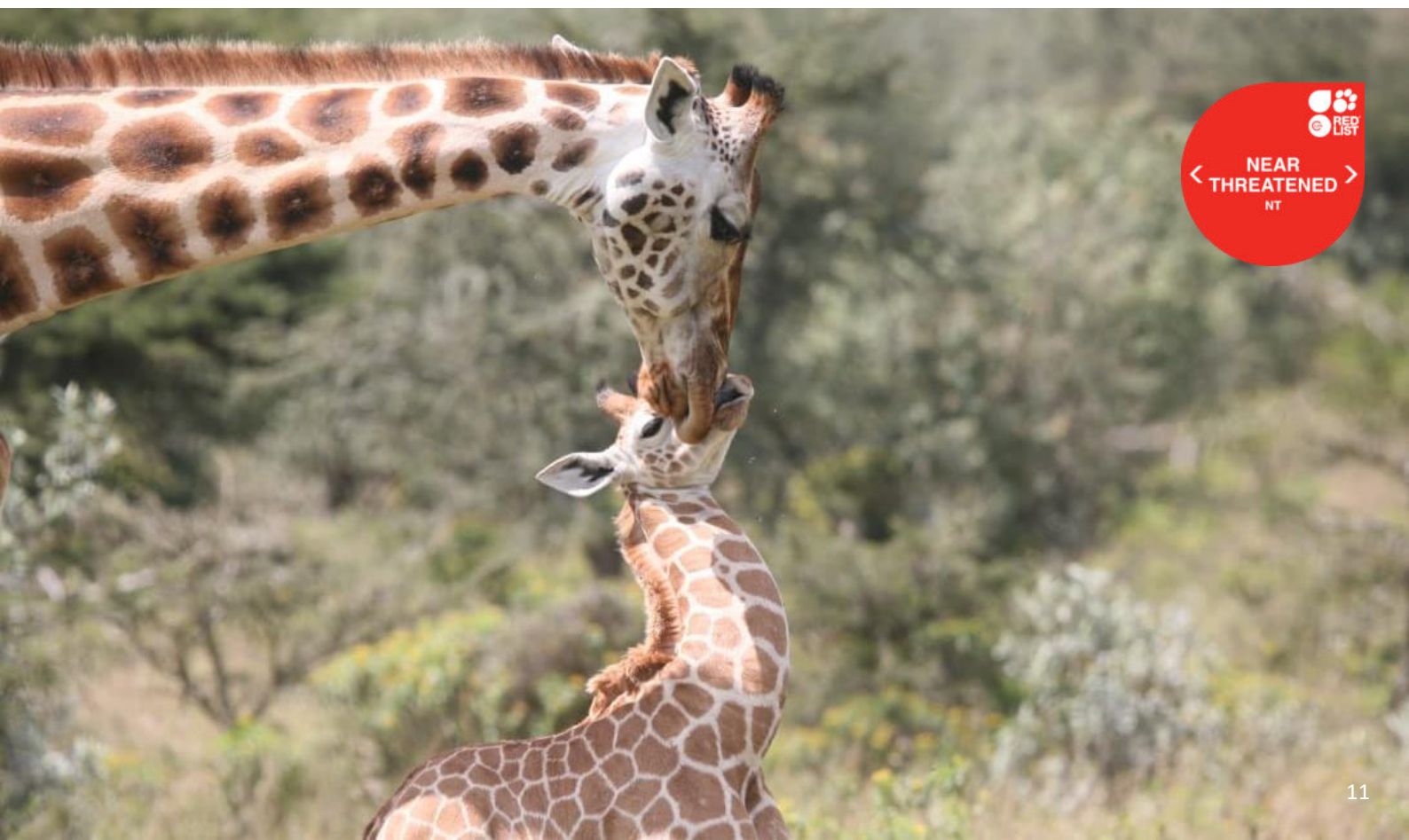
Focus on actions in 2023

There is good news for the reserve's species: almost all the female impalas have given birth, around 150 warthogs have been spotted and around ten Rothschild's giraffes are said to be pregnant, with births scheduled for 2024!

Moyo has continued its efforts to provide access to water by consolidating dams and two excavations to create large natural rainwater reserves. The team has created a system for collecting rainwater from the roofs of the main house to supply nearby reservoirs.

Moyo has continued its efforts to provide access to water by consolidating dams and two excavations to create large natural rainwater reserves. The team has created a system for collecting rainwater from the roofs of the main house to supply nearby reservoirs.

Moyo has increased the food aid provided to the rangers, particularly for corn meal and rice. The association also re-equipped the rangers with trousers, an anti-buffle belt, 2 pairs of socks, a T-shirt and a new pair of boots each.



NATURE PROJECT GREVY'S ZEBRA

COUNTRY: **KENYA**

SUPPORTED ASSOCIATION: **GREVY'S ZEBRA TRUST**



The **Grevy's Zebra Trust (GZT)** has been working since 2008 in northern Kenya, on the El Barta plain, to protect Grevy's zebra and the natural resources of this area. An endangered species, the Grevy's zebra has a population of around 3,000 individuals in the wild (mainly in Kenya), where less than 1% of their range is officially protected.

The survival of the species depends to a large extent on the success of human-animal cohabitation: GZT works with local communities and in partnership with multiple stakeholders in the field. Thanks to these collective efforts, the number of zebras in the area concerned is stabilizing.

The association also has to deal with severe droughts in the country, such as in 2021 and 2022. Forage has been provided for the zebras and vigilance has been increased on the few water points in the region.

Project supported since 2021

FUNDS DONATED IN 2023: €12,588.46

By Bioparc Conservation for the Nkirreten unit.

A Nkirreten unit to connect women to Nature

The project began in 2015 when Grevy's Zebra Trust started distributing sanitary pads to women and girls. The pads, in the colours of the zebras, help to connect the GZT's message in support of Grevy's Zebra conservation. The pads have helped them to manage their menstrual periods and have greatly reduced associated infections. In 2017, a Kenyan study showed that 95% of menstruating school-age girls missed between 1 and 3 days of school. 70% of the girls surveyed said that this had a negative impact on their studies...

In 2023, thanks to the efforts of the Kibouj association and its partners, we financed the setting up of a new local production unit for these period protections. Since autumn 2023, the two women chosen from the community have been trained. As of 22 December, they had already produced 260 packs of dignity (1 pack = 4 sanitary pads), i.e. 1,040 pads, benefiting around 380 households!!!!



NATURE PROJECT DAMA GAZELLE

COUNTRY: **SENEGAL**

SUPPORTED ASSOCIATION: **Special Wildlife Reserve of Gueumbeul (RSFG)**



The **Gueumbeul Special Wildlife Reserve (RSFG)** is a 720 ha protected area located in the extreme northwest of Senegal. This reserve, with its rich biodiversity, consists of a 340 ha saltwater lagoon surrounded by two strips of shrubby savannah covering 380 ha. main vocation is to be a center for the adaptation and reproduction of Sahelo-Saharan species reintroduced in Senegal, including the Dama gazelle. However, the site faces several problems that could compromise this mission: insufficient or outdated breeding enclosures, the presence of certain zoonotic diseases or the reduction of grazing areas due to an invasive cactus (*Opuntia tuna*).

This last element is currently a major concern, with 12% of the terrestrial part of the reserve being invaded by the cactus. The aim now is to restore degraded habitats, renew the reserve's tourist appeal and significantly involve local people in the management of the site.

Focus on cactus removal campaigns

Three clearing campaigns were carried out in: October and November 2021, then June - July 2022 and June - July 2023.

During each operation, more than 20 people came together to clear more than 8.45 hectares in total. A tractor, 20 pairs of gloves and boots, 10 forks and 4 carts were needed for each operation. The vegetation was recovered and buried in specially dug pits. Despite the effectiveness of this method, it will be necessary to develop maintenance measures in areas where the cactus has been removed to prevent regrowth.

Today, 37.75 ha remain to be cleaned, representing around 10% of the terrestrial part of the reserve.

Project supported since 2009

FUNDS DONATED IN 2023: **€8,000**

By Bioparc Conservation for the stump removal mission.



NATURE PROJECT BLACK RHINOCEROS

COUNTRY: **KENYA**

SUPPORTED ASSOCIATION: **SOLIO GAME RESERVE**

NEW IN 2023



Project supported since 2023

FUNDS DONATED IN 2023: **€6,400**

By the Bioparc for the outfits of 24 rangers out of the 48 in the reserve.

40% of black rhinos are protected on private land or land managed by communities that bear very high security costs.



At the beginning of the 20th century, there were 500,000 rhinos. By 1970, there were only 70,000, due to hunting, habitat loss (expansion of crops and demarcation of territories) and poaching (very high demand for horns in Asia and the Middle East).

The **Solio reserve** was created in 1973 to enable black rhinos to reproduce and avoid extinction in an area of 24,280 hectares with a varied topography right in the centre of Kenya, between Mount Kenya and Aberdare! It is currently the reserve with the highest number of black rhino individuals - over 600!

A reserve serving the community

Solio supports a range of community projects aimed at involving the local community as key players.

The rangers also take the opportunity to set up an awareness and learning program on topics such as environmental impact and conservation, to create a new generation that will protect the reserve and its surroundings.

The Reserve supports 5 schools in the surrounding communities. Solio feeds over 600 children every day, teaching them about conservation and the environment, supporting their sporting activities and providing equipment and organising inter-school sports competitions.

The Reserve has also set up a community group for women to give them access to hygiene products and develop sustainable projects to empower them to support their families:

- Development of nurseries for reforestation
- Donation of seeds: corn and beans
- creation of a water distribution network



NATURE PROJECT OKAPI

COUNTRY: CONGO

SUPPORTED ASSOCIATION: OKAPI CONSERVATION PROJECT



Endangered with less than 10,000 individuals, the okapi is thought to survive in only a few forests in the Democratic Republic of Congo, which has made the species its emblem. The natural and cultural heritage of the forest is under threat from a number of factors: habitat fragmentation, mineral and gemstone extraction, ethnic and political conflicts, poaching for ivory and hunting for bushmeat. As a collateral or direct victim, the okapi population is rapidly declining.

Project supported since 2014

FUNDS DONATED IN 2023: €5,019

By Bioparc Conservation for the overall functioning of the association.

The Okapi Conservation Project (OCP) was created in 1992 as a result of cooperation between the Congolese government and an American conservation center. With a surface area of 13,700 km², it is located in the heart of the species' main refuge: the Ituri forest. Classified as a World Heritage Site by UNESCO, the reserve is inhabited by 30,000 people and the Okapi population is estimated at 4,000 individuals. With a team of armed guards, OCP defends this reserve, its biodiversity and inhabitants, from poaching and conflict, and supports the villagers in development actions, including the promotion of sustainable agricultural practices. The team also monitors the evolution of biodiversity using automatic video traps.

Supporting the empowerment of women to protect the okapi

OCP's women's empowerment programme covers five offices in Epulu, Mambasa, Mungbere, Niania and Wamba. The women's groups encourage participants to explore their personal and professional goals, generate sustainable income and actively participate in land management and conservation education for the younger generation.

Each site has a community garden grown by women's groups in partnership with the agroforestry team: cabbage, carrots, aubergines, tomatoes, cauliflower and green peppers.

The harvests boost the food security and nutritional diversity of the women and their families. Surplus produce from these harvests is sold to the community, with the profits going back into each group's common fund.



NATURE PROJECT CHEETAH

COUNTRY: **SOMALILAND**

SUPPORTED ASSOCIATION: **CHEETAH CONSERVATION FUND**



Founded in Namibia in 1990, the **Cheetah Conservation Fund (CCF)** is an NGO dedicated to the conservation of cheetahs in their natural environment. It studies the country's cheetah population (the largest in the world) and carries out actions for the preservation of this threatened species. Its research and training facility is located about 40 km east of the farming town of Otjiwarongo.

Through collaborative partnerships with international NGOs, the CCF works towards better human-animal cohabitation within a sustainable system that is environmentally friendly, socially responsible and economically viable. For example, the association works with the Somaliland customs authorities who control goods. When cheetahs (often juveniles) are seized, they are turned over to the association, which raises them and releases them as adults when possible. Raising awareness among the population is then essential to avoid the emergence of conflicts.

Project supported on an ad hoc basis since 2001

FUNDS DONATED IN 2023: **€5,000**

By Bioparc Conservation for the overall functioning of the association.

Focus on the SCAT Detection Dogs unit

This unit was set up to increase the number of biological samples of cheetahs found in the field. The samples are analyzed in the NGO's genetics laboratory to gather valuable information about the sex, individual and species of the animal. Working with scat detection dogs on cheetahs is quite difficult : for 1 sample you have to cover 22 km!

The test phase of the program began with the arrival of Finn, a border collie, in February 2009. Since 2009, the program has trained several dogs, including Tiger, a spaniel who has been the CCF's main detection dog for several years.

In 2022, the dogs covered a total of 453 km of transects and the team collected 250 scat samples from potentially 14 different species, 84 of which were identified as target species in the field (cheetah = 48, wild dog = 36).



< VULNERABLE >

VU



NATURE PROJECT EGYPTIAN VULTURE

COUNTRY: **ALGERIA**

SUPPORTED ASSOCIATION: **TLEMCCEN MODEL FOREST ASSOCIATION**



The **Tlemcen Model Forest Association** has developed a conservation programme for the Egyptian vulture in the Tlemcen National Park in northwestern Algeria. The first phase of the project focused on awareness raising and outreach for this species. The second phase allows the development of a monitoring of the couple and of the individuals present and identified by direct and indirect observations (installation of photo traps) and by the creation of a feeding plot.

The Egyptian vulture is one of the six species of vulture threatened with extinction in Africa. Research on the presence of raptors in the region shows that the Egyptian vulture is very rare, with the existence of a single breeding pair in the Tlemcen National Park and the probability of the presence of several other individuals.

Focus on monitoring since 2017

A pair of Egyptian vultures has been present and breeding in the Tlemcen National Park since 2014. Since 2017, an ecological monitoring is in place. That year, the breeding failed for undetermined reasons. In 2018, 3 feeding plots were created, with the aim of seeing which one(s) would be used: only 1 was finally kept, above the cliff where the pair's nest was located. For the first time, 2 chicks are found in the nest since the discovery of the pair.

In 2019, the pair succeeded in breeding again and fledged 2 young. 2 other pairs were spotted in the Biosphere Reserve of the Monts de Tlemcen. In 2020, the pair changed nests but still fledged 2 young. In 2021 and 2022, the pair returned to the original nest but reproduction failed. The COVID-19 pandemic has made it difficult to survey and monitor this pair.

In 2023, a total of 7 adults observed and 3 young fledged by the pair monitored since 2017!

Project supported since 2017

FUNDS DONATED IN 2023: **€4,315**

By Bioparc Conservation for monitoring Egyptian vultures.



NATURE PROJECT EGYPTIAN VULTURE

COUNTRY: **NIGER / CHAD**

NEW IN 2023

SUPPORTED ASSOCIATION: **SAHARA CONSERVATION**



< ENDANGERED >

EN



Project supported since 2023

FUNDS DONATED IN 2023: **€3,000**

By Bioparc Conservation for monitoring and raising awareness of vultures.

Over the past two decades, teams from the Sahara Conservation Fund - now officially renamed Sahara Conservation - have worked to defend the unique wildlife of the world's largest desert landscape and critically endangered species such as the addax and dama gazelle. More recently, they have turned their attention to large-scale rewilding through translocations and reintroductions.

In their new strategic plan, Sahara Conservation states that they want to ensure the long-term conservation of threatened species in the Sahel and Sahara through in-situ conservation, reintroduction, reinforcement, research and population monitoring. A new project has been launched to halt the decline of vultures in West and Central Africa.

Across Africa, vultures have declined considerably in recent decades. While the Asian vulture crisis is widely recognised, the lesser-known African vulture crisis is very real, with the highest rates of decline in West Africa. One of the main factors in this decline is the illegal capture of vultures for traditional purposes (a wide range of medical and personal uses, such as treating madness, strokes, fighting evil spirits, gambling, luck, etc.).

Focus on the vulture monitoring and conservation program

Recent studies have identified Niger and the Chad Basin area as the largest clusters of vulture habitats in West Africa, harbouring significant populations of six highly threatened vulture species (Rüppell's, lappet-faced, white-backed, white-headed, Egyptian and hooded vulture) (Buji and al, 2018).

Two information and awareness-raising campaign missions for executives from the General Directorate of Water and Forests on vulture conservation took place in the Zinder region in July and September 2023. The aim of these missions was to help strengthen the operational capacities of those responsible for investigating offences and applying the legal texts and regulations governing nature conservation, and the protection of vultures in particular.

→ A total of 83 people were involved, including 23 forestry managers, 4 local elected representatives, 21 fishermen and 35 village representatives.



NATURE PROJECT AARDVARK AND OTHERS

COUNTRY: **SENEGAL**

NEW IN 2023



SUPPORTED ASSOCIATION: **Boundou Community Nature Reserve Conservatory (BCNR)**

The Boundou Community Nature Reserve (BCNR) is a Senegalese community protected area managed "by the communities, for the communities". Created in 2009, this former leased hunting area has now been transformed into a protected area covering 120,000 hectares in four communes (Dougué, Koussan, Sinthiou-Fissa and Toumboura) in the Tambacounda region.

Rich in biodiversity due to its location in a Sahelo-Saharan climatic transition zone, the BCNR is an ideal place to carry out ecological inventories and monitoring. For example, the work undertaken to date has highlighted the presence of 283 bird species, 40 terrestrial mammal species and 111 tree species. These include several threatened heritage species such as the red-fronted gazelle (*Eudorcas rufifrons*) and the hippopotamus (*Hippopotamus amphibius*) and vultures (6 species), as well as large predators such as the leopard (*Panthera pardus*) and the West African lion (*Panthera leo senegalensis*). The aardvark (*Orycteropus afer*), as a species that engineers ecosystems, also represents a major challenge due to the large burrows it builds. Several signs of the return of the big cats and the aardvark have recently been noted in the reserve (footprints, feces, burrows and eyewitness accounts).

Project supported since 2023

FUNDS DONATED IN 2023: **€3,000**

By Bioparc Conservation for monitoring and raising awareness of endangered species in the reserve.

It is now necessary to quantify this return (location, population, density) in order to direct conservation actions towards these priority species. Finally, a population of northern ground-hornbill (*Bucorvus abyssinicus*), a species considered Vulnerable by the IUCN, is also well represented in the RNCB and is being specifically monitored with a view to its inclusion as a new priority species..

First results in 2023

- 15 hippos observed directly
- 11 aardvark burrows found during the survey, including 5 new ones compared with 2022
- 21 species observed using photo traps, including: African clawless otter (NT), caracal, honey badger, hippopotamus (VU), red-fronted gazelle (VU), bateleur (EN), Guinea baboon (NT), African wolf, common duiker, common genet, spotted hyaena, roan antelope, oribi, crested porcupin, serval and the northern ground-hornbill (VU).



Aardvark burrows of the "shrub formation" type (at the foot of hills) with several entrances or saxicolous (on hillsides)

THE NATURE PROJECTS SOUTH AMERICA

| Country | Species and /or habitat concerned | Structure supported | Mission/action | Funds provided in 2023 |
|----------------------------|---|--|---|--|
| PERU | Dry forest Spectacled bears Chilean flamingos | Tu Tierra | The Chaparri Ecological Reserve is the first community-initiated reserve in Peru. A refuge for spectacled bears, it protects more than 34,000 hectares of dry forest. | <i>Bioparc Pilot Nature Project</i> €115,011.81 including €2,761.92 for the Chilean flamingos |
| ECUADOR | Brown-headed Spider Monkey | Washu | Washu protects the brown-headed spider monkey, one of the 25 most endangered primates in the world: studying its distribution, ecology and genetics, protecting its habitat, raising awareness and supporting farmers are all part of the conservation strategy for the species. | €26,650 |
| VENEZUELA | Brown Spider Monkey | Proyecto Mono Araña (Spider Monkey) | This project concerns the protection of the Caparo Reserve, 7,000 hectares of dry forest that is home to groups of brown spider monkey, and which is subject to numerous threats despite the protected status of the forest. The project includes monitoring the forest, involving local villagers and monitoring the brown spider monkeys. | €19,000 |
| ARGENTINA | Andean condor | Bioandina | Bioandina strengthens wild condor populations through the reintroduction of captive-born and rescued birds in collaboration with local communities. | €15,000 |
| BOLIVIA | Red-fronted Macaw | Armonia | Armonia aims to preserve Bolivia's birds and their natural habitat while seeking a better cohabitation of these animals with the local human population. | €7,574.22 |
| NEW IN 2023 PERU | Primary forest Spectacled bears | Machacuay Community & Conservation (MCC) | MCC aims to protect and conserve the biodiversity of the Hidden Valley while helping the local community to live in harmony in the forest. | €7,128.23 |
| BRAZIL | Hyacinth macaw | Instituto Arara Azul | The main objective of the Arara Azul project is to maintain a viable population of wild hyacinth macaws in their habitat in the middle to long term, especially since the recent fires in the Pantanal region. | €4,412 |

A big THANK YOU to the partners who supported the following projects in 2023:

Tu Tierra: Association Racing Club Douessin Athlétisme, CERZA Conservation, Dierenpark Amersfoort Wildlife Fund, EcoZonia, Fondazione ARCA, Nashville Zoo, Play For Nature, Zoo de Maubeuge.

Proyecto Washu: Naturospace.

Proyecto Mono Araña: Boissière-Mervent Conservation, La Vallée des Singes et Le Conservatoire pour la Protection des Primates, Parc animalier et botanique de Branféré, Zoo Neuwied.

Machacuay Community & Conservation: Zoo de Martinique et Zoo du Cagnet des Maures.

NATURE PROJECT SPECTACLED BEARS

COUNTRY: **Peru**

SUPPORTED ASSOCIATION: **Association Tu Tierra and ACOTURCH**



Attached to its sacred mountain Chaparri, the Muchik rural community of Santa Catalina de Chongoyape spontaneously chose to preserve 34,412 ha of its dry forest lands. Together with the family of naturalist photographer Heinz Plenge, they created the **Chaparri Ecological Reserve**, which they manage through the associations **Tu Tierra and Acoturch**.

Chaparri is the first conservation area of popular initiative in Peru and the largest dry forest conservation area in Northern Peru.

Located in the heart of the dry forest ecosystem, this mountain and the forest it overlooks are home to a remarkable biodiversity with a high rate of endemism: the extraordinary wealth of birds and the presence of the spectacled bear, the only bear species from South America, make this environment unique.

Original mode of socio-economic development and environmental protection, Chaparri protects the forest by fighting poverty, offering ecotourism that respects nature and local culture, and preserving wildlife, especially the spectacled bear in the wild and in the bear rescue centre. Recognised throughout South America, Chaparri is a model for many other communities concerned with preserving their ancestral and natural lands.

Project supported since 2001

FUNDS DONATED IN 2023:

- BY THE BIOPARC: **€35,000**
- BY BIOPARC CONSERVATION: **€80,011.81**

DAILY SUPPORT OF THE BIOPARC



The Water Festival, looking back at the 2022 edition

The Water Festival is an educational, environmental, cultural, tourism and entertainment event conceived by Heinz Pleinge, academically supported by Dr Adine GAVAZZI, founding member of the Genoa UNESCO Chair in Anthropology. The first edition took place at the end of 2019, with great success.

The main theme? The Muchik messengers who carry the water from the sea in calabashes as offerings for the people, the mountains, streams, ponds and lagoons of the high Andes associated with the Chancay/Lambayeque river and the hydraulic system developed by the ancestors. The solemn, festive procession includes the valley's ancestral dignitaries, who make a symbolic appearance following invocation by the Master Healers in a 3-day pilgrimage. It passes through various ecosystems, culminating in the Mishaguanga lagoon at an altitude of 4,000 meters. This event prompts deep reflection on the urgent need to take care of fresh water. The festival is also an opportunity to get communities, municipalities, cultural groups, schools, institutes, authorities and entrepreneurs involved, with the aim of strengthening the continuity of their Muchik identity.

In 2022, 1,000 people were mobilized, 10,000 spectators over 3 days, 50 kg of Lima beans were distributed, a pre-Hispanic foodstuff that is in danger of disappearing.



The Chaparri Ecological Reserve greener than ever following the intense rains of spring 2023!

NATURE PROJECT CHILEAN FLAMINGO

COUNTRY: **Peru**

SUPPORTED ASSOCIATION: **Association Tu Tierra and ACOTURCH**



Since 2010, Tu Tierra has been working with and supporting the rural community of San Martin de Sechura, along with several other associated consultants, to monitor the population of Chilean flamingos (*Phoenicopterus chilensis*) in the complex of hypersaline wetlands located in their municipal area. It is in this area that large colonies of this species have been found!

Project supported since 2022

FUNDS DONATED IN 2023

• BY BIOPARC CONSERVATION: **€2,761.92**

INCLUDED IN THE TOTAL DONATED TO TU TIERRA

For several years now, a group of local residents have been working together, all on a voluntary basis, to carry out patrols and checks in their area. The aim is to strengthen environmental management and the protection of various wild species and their habitats that are not yet under or in protected areas. The presence of nesting colonies of the Chilean flamingo, and of the largest populations of this species on the municipal territories throughout the year, are used as an indicator of the health of the various ecosystems, mainly aquatic. Until 2022, the precise number of individuals in this population of flamingos in north-west Peru, present between February and the end of June in the above-mentioned complex of hypersaline wetlands, was not known.

This type of census has been recommended by experts and specialists in flamingos and endangered birds working with the Tu Tierra association, to support the efforts of the farming community of San Martin de Sechura, which is seeking to document ecological and environmental information in order to make proposals to the Peruvian government for medium- and long-term research into the various terrestrial and aquatic ecosystems they possess.

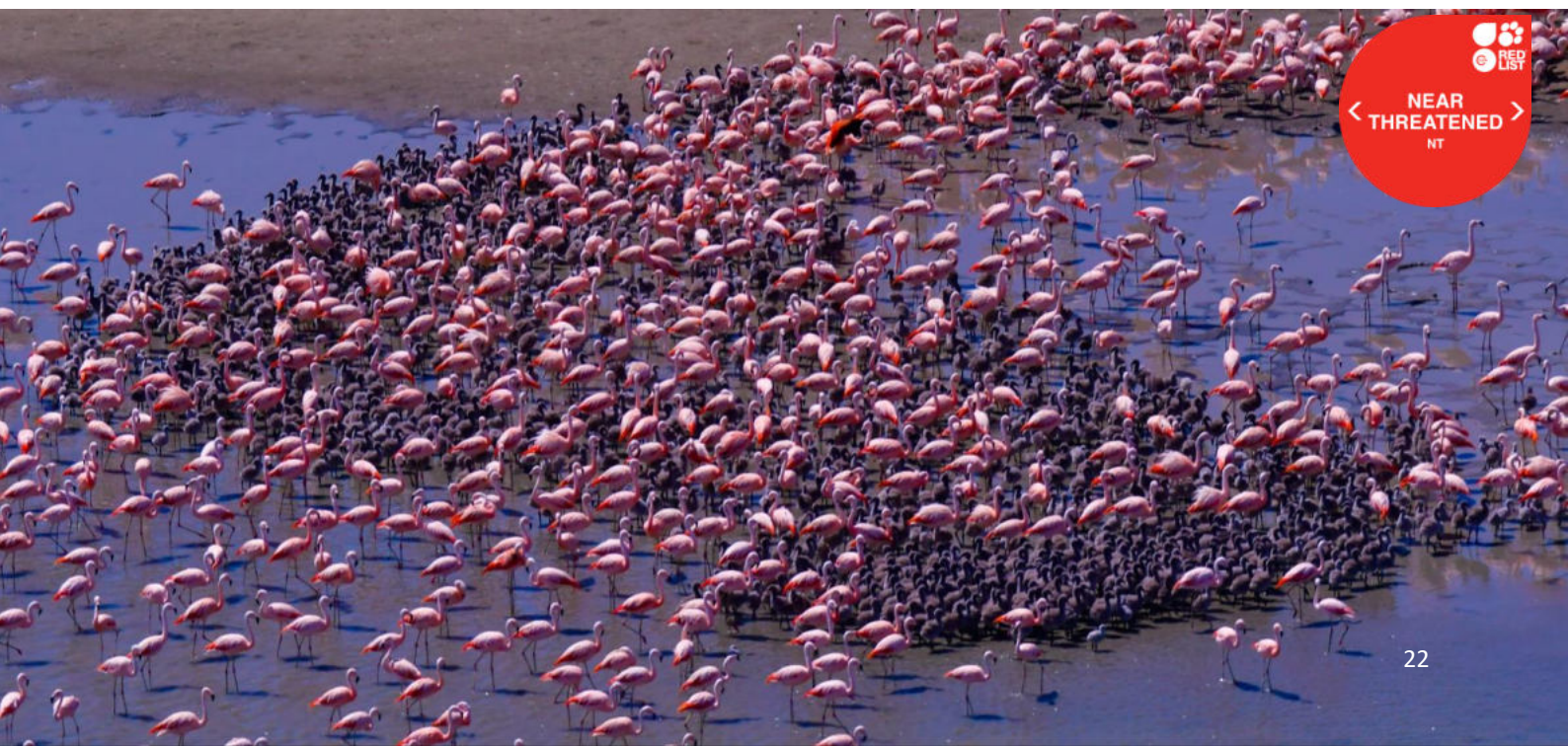
2nd Regional census of Chilean flamingos

In 2022, the 1st regional census of the population present in Piura took place. By flying over the colony and analyzing the images collected, 12,341 adult and young-of-the-year flamingos were counted!

The 2nd regional census of this population took place in August 2023. This year, in addition to the observations and monitoring carried out by several members of the community of San Martin de Sechura, one of the two ornithologists helping us with the project called on the services of a drone specialist who collaborated with us on this project.

An important fact impacting this year's census: the Sechura desert was affected by the global meteorological event La Nina, causing the reappearance of the La Nina lagoon, as it can happen every 5 to 10 years.

5,763 juvenile Chilean flamingos were counted, 4 times more than in 2022! And it is estimated that between June and July, there were more than **14,000** flamingos nesting in one or more fragmented colonies nearby. This population therefore numbers around **20,000 individuals!**



NATURE PROJECT BROWN-HEADED SPIDER MONKEY

COUNTRY: ECUADOR

SUPPORTED ASSOCIATION: PROYECTO WASHU



Specialist in the study of primates, **Proyecto Washu** is interested in monitoring brown-headed spider monkey populations and the state of their natural habitat: the Ecuadorian forest. Indeed, the local population of brown-headed spider monkey is the first to be affected by deforestation. In order to protect the forest, the NGO works with indigenous communities to offer them better economic opportunities through sustainable trade: the inhabitants thus become the first protectors of the forest. In this context, the Washu association works with small chocolate producers to develop organic agroforestry and protect forest land.

At the same time, Washu collects and rehabilitates spider monkeys that are victims of wildlife trafficking. It ensures the well-being and health of the individuals entrusted to its care center, and does everything possible to reintroduce the spider monkeys who can be reintroduced. The search for release sites is crucial: the territory available for the spider monkeys has been considerably reduced over the last decades, replacing forested areas by crops or balsa plantations. On the crests of the lower mountains, forestry is more difficult, so there are still wooded areas available. Washu is now trying to become the owner of these areas in order to protect them and to release spider monkeys there.

Construction of a rehabilitation center for the species

After several years of research, Proyecto Washu was able to acquire 33 hectares in the province of Esmeraldas to establish the 1st sanctuary for the species and other primates in Ecuador! This centre will continue the process of rehabilitating the primates currently housed in the Hacienda Jambelí facilities and will take in new individuals that have fallen victim to illegal wildlife trafficking.

The new enclosures will be as natural as possible, with native tree species. The team is already caring for more than 30 individuals, who will be the first to benefit from this sanctuary!

Project supported since 2015

FUNDS DONATED IN 2023:

- BY THE BIOPARC: €13,720
- BY BIOPARC CONSERVATION: €12,930

For the operation of the community program, for the purchase of land in Manabi and the new sanctuary.



NATURE PROJECT BROWN SPIDER-MONKEY

COUNTRY: VENEZUELA

SUPPORTED ASSOCIATION: PROYECTO MONO ARANA (SPIDER MONKEY CONSERVATION PROJECT)



Among the world's most endangered primates, the brown spider monkey (*Ateles hybridus*) depends on the protection of its forest habitat in Colombia and Venezuela. Its most critical distribution area is in the Venezuelan western plains, in the heart of the Caparo Forest Reserve. When it was created in 1961, Caparo covered 184,100 hectares of tropical dry forest. But in 30 years, more than 90% of the reserve has disappeared under the combined pressure of small farmers, large farmers and logging companies.

Today, Caparo consists of 7,000 hectares of continuous forest and small isolated fragments of up to 150 hectares, subject to numerous natural fires. Despite being protected by the government and the University of the Andes, intrusions continue and many illegal farms are clearing and setting up to grow corn, rice, plantain, chilli or manioc. The critical state of the forest and the lack of knowledge about the species motivated the creation of the project by the native primatologist Diana Liz Duque Sandoval: to study the species, measure the threats and protect the forest with the authorities, train young researchers, raise awareness among the locals about the challenges of protecting nature, and involve small farmers to develop sustainable practices. In 2019, the Bioparc responded to the alert launched by the biologist to urgently secure Caparo by hiring four ranger guards to set up surveillance and ensure that pressure is controlled and reduced (as well as 3 other parks).

Project supported since 2019

FUNDS DONATED IN 2023:

- BY THE BIOPARC: €4,000
- BY BIOPARC CONSERVATION: €15,000

For the overall functioning of the association.



Fire in spring 2022 and restoration of the forest ecosystem

For 15 days in March 2022, a forest fire broke out in zone 5 of the forest, burning around 60 hectares. The forest rangers, assisted by 3 volunteers from the local community, brought the fire under control using equipment kindly donated, by using water, creating a firebreak and cutting down the burnt trunks.

To help and speed up the re-establishment and regeneration of certain species, the 4 Caparo rangers collected seeds from around fifteen species of tree and planted them using the "al voleo" method.



NATURE PROJECTS ANDEAN CONDOR

COUNTRY: **Argentina**

SUPPORTED ASSOCIATION: **BioAndina**



Bioandina, an Argentinian association, is strengthening wild condor populations through the reintroduction of captive-born and rescued birds in collaboration with local communities.

Its main objective is to ensure the preservation of this species and its ecosystem, all along the Andes.

In the twenty years of its existence, the association has been able to successfully reintroduce more than 200 Andean condors into their natural environment through its rescue and release program.

The main threat, condor poisoning

Argentina has the largest percentage of the natural population, which brings with it a huge responsibility, as any action, whether beneficial or threatening, will have a decisive impact on the conservation of the species as a whole.

In this country, the illegal use of pesticides, mainly agrochemicals such as carbofuran and parathion, is decimating natural populations of Andean condors. With a considerable impact, more than 170 condors have died in Argentina in recent years, threatening the species with extinction.

Unfortunately, some people living in rural areas use poison in an attempt to control large carnivores (such as pumas, foxes or dogs), causing not only the death of the scavengers responsible for keeping the environment 'clean', but also contaminating the soil and water and endangering all forms of life, including human health.

Project supported since 2008

FUNDS DONATED IN 2023: **€15,000**

By Bioparc Conservation for the overall functioning of the association.



NATURE PROJECT RED-FRONTED MACAW

COUNTRY: **BOLIVIA**

SUPPORTED ASSOCIATION: **ARMONIA**



Project supported on an ad hoc basis since 2009

FUNDS DONATED IN 2023:

- BY THE BIOPARC: €5,594.22
- BY BIOPARC CONSERVATION: €1,980

For the monitoring project in El Palmar National Park.

The Red-fronted macaw (*Ara rubrogenys*) is a critically endangered species, mainly threatened by the destruction of dry forests, human-animal conflicts (destruction of maize crops by macaws), poaching and illegal trade to supply the pet market.

Armonia's mission is to preserve Bolivia's birds and their natural habitat, while seeking a better cohabitation of these animals with the local human population.

The problem of habitat loss has been partially resolved by the creation of the Paraba Frente Roja Reserve. Located among and administered by the communities of San Carlos, Perereta and Amaya, with the support of Armonia. The reserve covers 50 hectares (124 acres). The spectacular sheer cliff that dominates this landscape is the main breeding site for the species.



El Palmar National Park, the new haven for the species

The Armonia team discovered that a population of red-fronted macaw living in this national park was breeding in cavities rather than on cliffs, in an endemic palm tree (*Parajubaea torallyi*), itself in danger of extinction and found only in the dry Andean valleys of Bolivia. Even within the boundaries of national parks, the palm's habitat is rapidly disappearing due to fires caused by madness and the expansion of the agricultural frontier...

During a mission to monitor and search for nests, the Armonia team was able to take a look inside one of the nests and place a camera trap to study the birds' behaviour. The two parents spend the night in the nest with their young, not sleeping but grooming each other and moving around constantly. As temperatures are much lower than in other parts of Bolivia, they are no doubt trying to provide warmth.



NATURE PROJECT HIDDEN VALLEY

COUNTRY: **Peru**

NEW IN 2023

SUPPORTED ASSOCIATION: **Machacuay Community & Conservation**



The project area, covering around 200,000 hectares, is one of the last large areas of the Peruvian Amazon that remains virtually uninhabited and therefore largely free of negative human impact.

It contains completely intact ecosystems, where many threatened species find safe shelter, such as the jaguar, puma, tapir, spectacled bear, white-lipped peccary, giant armadillo, giant anteater and probably five threatened monkey species (three of which are endemic to Peru): Peruvian yellow-tailed woolly monkey, San Martin titi monkey, white-bellied spider monkey; Peruvian spider monkey and bald-headed uacari.

Biologists also expect to find a large number of new species in this unexplored region, which consists of mountains - known as Andean Tepuis - surrounding isolated valleys at higher altitudes than the Amazon lowlands. More poetically, it's like Arthur Conan Doyle's lost world, a hidden valley about which we know very little.

Following the initial steps taken in 2019 by Dutch-Peruvian biologist Ronald Wagter to support the indigenous Awajun community of Mantaga as guardians of nature in their territory, Machacuay Community & Conservation was founded in 2021 as an NGO.

Project supported since 2023

FUNDS DONATED IN 2023: €7,128.23

By Bioparc Conservation for the actions listed below.



Focus on actions in 2023

- Purchase of 10 camera traps to certify the presence of several species
- Purchase of 30 lamps and external batteries, one for each guide and Awajun family
- Purchase and installation of two solar panels for the Yamakayenta village
- Purchase of 15 backpacks, 1 per family, to make it easier to transport their purchases from Alto Mayo (1 to 3 days' walk)
- Construction of a community hut in the village of Mantaga to serve as a school building and meeting room for the community

NATURE PROJECT HYACINTH MACAW

COUNTRY: **Brazil**

SUPPORTED ASSOCIATION: **Instituto Arara Azul**



In the Brazilian Pantanal, the largest swamp in the world, lives one of the emblematic parrots of the Bioparc Great South American Aviary: the hyacinth macaw (*Anodorhynchus hyacinthinus*). The Instituto Arara Azul has been working there for over thirty years to save this emblematic bird.

The general mission of the association is to promote the conservation of biodiversity, the rational use of natural resources and the improvement of the quality of life of the local population.

The association also installs artificial nests so that the macaw can nest and reproduce in deforested areas. Monitoring and protecting the nests ensures the reproduction of the species and limits its decline. It fights against the main threats to the species: capture for illegal national and international trade, destruction of its habitat and the collection of feathers for souvenirs.

Project supported since 2020

FUNDS DONATED IN 2023: €4,412

By the Bioparc for the installation of two artificial nests.

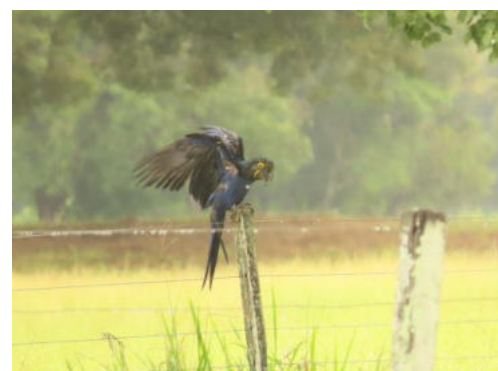


Focus on the "Adopt a Nest" campaign

Since 2021, we have been supporting this campaign by "adopting" 2 nests for Hyacinth Macaws. In 2021, each nest was occupied by a pair. 1 youngster was born in each and was monitored by the Instituto Arara Azul teams until it fledged! Our keepers have chosen their first names: Brodi and Hortense! In 2022, 3 young females were born! Our keepers have chosen their first names: Majorelle & Céleste, Panacea!

In 2023, 4 eggs were once again laid in the 2 nest boxes supported, and 3 chicks were born and are preparing to take to the skies at the start of 2024!

During the rest of the year, more than 20 other species benefit from these nests!



THE NATURE PROJECTS EUROPE (1/2)

| Country | Species and /or habitat concerned | Structure supported | Mission/action | Funds provided in 2023 |
|--------------------------------|-----------------------------------|---|---|------------------------|
| FRANCE | Bats | Pays de la Loire Conservatory of Natural Areas & the Anjou LPO. | The Pays de la Loire CEN and the LPO have joined forces to protect a bat hibernation site in a cellar, for which the Pays de la Loire CEN is acquiring the land. | €10,000 |
| FRANCE | Vultures | Hegaldia | Hegaldia manages the only wildlife care center in the Pyrénées-Atlantiques and welcomes many vultures. It is a major actor in raising awareness for the protection of birds of prey and reintroduces the birds treated in France and Bulgaria. | €3,000 |
| FRANCE | Egyptian vulture | Nature in Occitania National Action Plan (PNA) | Within the framework of a PNA, the association acts in particular for the conservation of Egyptian vulture populations with a tagging and telemetric monitoring program. | €3,000 |
| BULGARIA | Vultures | Fund for Wild Fauna and Flora (FWFF) | FWFF seeks to conserve and enhance vulture populations in the Balkans. In the long term, this also means restoring food resources for vultures, supporting local farmers and combating carcass poisoning. | €3,000 |
| NEW IN 2023 | | | | |
| FRANCE | Planting a mini-forest | La Maison des Arbres, Saumur Terre d'Avenir, Jane Goodall Institute France | In collaboration with two local associations and one national association, we are planting a mini-forest at the Sadi Carnot Jean Bertin secondary school in Saumur, with the help of the management team and the students elected as eco-delegates for their class. | €3,000 |
| GERMANY AND MEDITERRANEAN AREA | Migratory birds | Committee Against Bird Slaughter (CABS) | CABS fights against the illegal poaching of European migratory birds. | €2,000 |
| NEW IN 2023 | | | | |
| FRANCE | Youth | Jane Goodall Institute France (JGIF) | Roots & Shoots is an environmental education programme for and by young people, initiated by 12 Tanzanian teenagers with Dr Jane Goodall in 1991. | €2,000 |
| FRANCE | Egyptian vulture | Provence Alpes-Côte-d'Azur (PACA) region Conservatory of Natural Areas (CEN) | The CEN PACA, whose mission is to preserve the natural heritage of the Provence-Alpes-Côte-d'Azur area, is working to strengthen the Egyptian vulture population by encouraging their presence through the maintenance of feeding sites. | €1,600 |
| SPAIN | Northern bald ibis | Proyecto Eremita With Jerez Zoo | By rehabilitating ibis from zoos, Proyecto Eremita has succeeded in creating and establishing a new colony of northern bald ibis in Andalusia. | €1,837.44 |

A big THANK YOU to the partners who supported the following projects in 2023:

Conservatoire d'Espaces Naturels Pays de la Loire: CIC Ouest.

Nature en Occitanie: Volerie du Forez.

Proyecto Eremita: Spaycific'Zoo, Zoo de Jerez.

THE NATURE PROJECTS EUROPE (2/2)

| Country | Species and /or habitat concerned | Structure supported | Mission/action | Funds provided in 2023 |
|--------------------------------------|-----------------------------------|---|--|------------------------|
| FRANCE | 18 conservation projects | French Association of Zoological Parks (AfdPZ) | Through its conservation fund, the AFdPZ wishes to contribute to the ecological balance and the conservation of biodiversity. | €1,250 |
| <small>NEW IN 2023</small> FRANCE | Hedgehogs | Noctis Hérisson | Hedgehog care center in the Maine-et-Loire department. | €250 |
| <small>NEW IN 2023</small> FRANCE | Hedgehogs | SOS hérissons 49 | Hedgehog care center in the Maine-et-Loire department. | €250 |
| SPAIN | La Janda lagoon | Amigos del Pericon (AdP) | AdP brings together 5 organisations seeking to restore part of the former wetland and protect its fauna, flora and various natural habitats. | €150 |



One of the two female hedgehogs discovered near Cholet and cared for by Noctis Hérisson at the end of November 2023, who weighed around 100g and now weigh 400g more and have been released!



A female found with another male, who did not survive, at the beginning of November 2023. At the beginning of December she weighed 264g, 99g more than when she was taken in by SOS Hérissons 49! She will be released in spring 2024 after regaining her strength!

NATURE PROJECTS BATS

COUNTRY: FRANCE

SUPPORTED ASSOCIATIONS: Pays de la Loire CEN & Anjou LPO

NEW IN 2023



Greater horseshoe bat

The Maine-et-Loire area, with its extensive network of underground sites, its abundance of old buildings, its proximity to large wet valleys and its extensive woodland, is home to some remarkable challenges for the region's bat populations.

There are currently 21 species of bat in the area, and the number counted in a single winter exceeds 15,000 individuals!

Bioparc Conservation was keen to support strong action in favor of bats on the local territory, so we approached two key local players for this purpose: the Pays de la Loire Conservatory of Natural Spaces and the LPO Anjou.

The Pays de la Loire Conservatory of Natural Spaces intervenes on a regional scale in the editing, implementation, animation, accompaniment, support and advice to local authorities for various projects linked to preservation natural spaces and ecological continuities.

The study and conservation of bats are strong areas in which the LPO Anjou is investing. Due to the numerous regional and national issues identified in Maine-et-Loire, as well as the presence of a group of volunteers involved for a long time, concrete actions have emerged and are being pursued.

Project supported since 2023

FUNDS DONATED IN 2023: €10,000

By Bioparc Conservation for the land acquisition of the cave.

Acquisition and defense of the Mandottières site

Thanks to the support of Bioparc Conservation, the CEN Pays de la Loire was able to acquire the Mandottières cave which accommodates no less than 648 bats according to the last count in 2023!

During this last count, a total of 9 species were listed! It should be noted that as such it is a hibernation site of national importance for bats. This cave is also very important for heritage species such as the greater and lesser horseshoe bats:

- Greater horseshoe bat:
 - 6th site with the largest number in the department,
 - 3rd site outside Saumur
- Lesser horseshoe bat : 3rd site with the largest number in the department

In 2024, the entrance to the cave will be protected thanks to the installation of a grid, thus preventing the disturbance of bats!



Cluster of Geoffroy's Bat

NATURE PROJECTS VULTURES

COUNTRIES: **FRANCE AND BULGARIA**

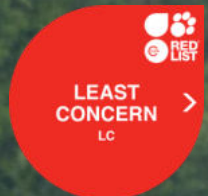
SUPPORTED ASSOCIATIONS: FRANCE: **Nature in Occitania, Hegalaldia wildlife care center, CEN PACA**
BULGARIA: **Fund for Wild Flora and Fauna (FWFF)**



Egyptian vulture



Cinereous vulture



Griffon vulture



Bioparc supports a **network of associations in Europe** that works for the sustainable return and preservation of vultures, griffon vultures, cinereous vultures, Egyptian vultures and bearded vultures. The actions are numerous: awareness raising and monitoring of the species, reintroduction and protection of habitats, rescue and care, restoration of traditional breeding giving life back to the mountains and guaranteeing food for the vultures. All the associations seek to restore the vultures to their place as nature's scavengers, inseparable from the pastoral landscape.

Reintroductions began in 1981 in the Grandes Causses and have led to the presence of a stable and significant population of griffon vultures in France. At that time, the Bioparc approached the pilot of this unprecedented project, the Fonds d'Intervention pour les Rapaces (now Mission Rapaces LPO), to give them our first griffon vulture born in the zoo in 1983 and to propose the acquisition of wounded birds unable to recover their ability to fly. Since then, the vultures welcomed at the Bioparc have reproduced and given birth to young birds which are reintroduced in France for the cinereous vulture and in Bulgaria for the griffon vulture.

The Bioparc is the first zoo involved in the reintroduction of vultures: since 1983, it has released into the wild (in France and Bulgaria) some 60 individuals born in captivity.

Projects supported since 1983

FUNDS DONATED IN 2023:

- BY THE BIOPARC: €3,000
- BY BIOPARC CONSERVATION: €7,600

For general operation of each associations.

Vultures born at the Bioparc are given to field associations and released into the wild.

NGO supported in 2023

- **Hegalaldia**, whose main activity is to take in wild animals in distress and treat them so that they can then be released back into the wild
- **CEN PACA**, which operates in one of the French regions where there are major challenges for biodiversity
- **Nature in Occitania**, an association that worked in 2021 to implement a ringing and telemetric monitoring program for the Egyptian vulture
- **FWFF**, a Bulgarian NGO that has been working for over 20 years to conserve nature by helping farmers.

Launch of LIFE Bearded Vulture and Black Vulture

The aim of this project is to restore the historical distribution of bearded vultures and black vultures in the Balkans. It will be achieved through the strategic reintroduction of populations, thereby facilitating the restoration of genetic connectivity between Western Europe, Africa and Asia. This goal is in line with the objectives set out in the European Action Plans for the species concerned, the Multi-species Action Plan for the Conservation of African-Eurasian Vultures and the EU Biodiversity Strategy. by 2030. This can be done by improving nesting conditions, strengthening food supplies, supporting local breeders, encouraging sustainable breeding, mitigating threats and strengthening national capacities for reintroduction efforts.



NATURE PROJECT MINI-FOREST

COUNTRY: FRANCE

NEW IN 2023

SUPPORTED ASSOCIATIONS: LA MAISON DES ARBRES, SAUMUR TERRE D'AVENIR, JANE GOODALL INSTITUTE FRANCE



Pierre Gay, President of Bioparc Conservation (BC), supports around thirty Nature Projects a year to preserve natural environments. He wanted to take action at a local level by involving the younger generation in a reforestation project called " Nature Initiative ". It drew on the expertise of two local associations, La Maison des Arbres and Saumur Terre d'Avenir, as well as the international NGO Jane Goodall Institute, to develop and organize a joint tree-planting project within an educational structure: the Lycée Sadi Carnot Jean Bertin.

Together, the various organizations have drawn up the following project: to plant 1,000 trees on a 350m² plot of land near the student center. The planting will be carried out using the Miyawaki method, a Japanese botanist with expertise in plant ecology.

This "Nature Initiative" has several objectives: to plant 1,000 trees in order to limit the rise in temperature, to improve the well-being and health of the school's students through contact with green spaces, and to raise awareness among project participants of the importance of trees and their biology. Finally, for each tree planted at the Lycée Carnot Bertin, the Jane Goodall Institute France is committed to planting 10 trees in Burundi, a total of 10,000 trees!

Projects supported since 2023

FUNDS DONATED IN 2023: €3,000

By Bioparc Conservation for the project.

Feedback on the implementation of the project

March 23: 1st exchanges between BC and the three other associations.

May 23: 1st meeting between La Maison des Arbres and the high school.

October 23: presentation of the project to the student eco-delegates and supervisory staff of the high school & light plowing of the 350 m² concerned (on ~10 cm)

November 23: spreading of 6m³ of "Bois Raméal Fragmenté" (mixture of fresh wood chips) and 3 tons of hay in order to be able to recreate a rich and adequate soil life for the trees.

February 2024: final stage with the planting of trees!!!



NATURE PROJECT MIGRATORY BIRDS

COUNTRIES: **GERMANY AND MEDITERRANEAN AREA**

SUPPORTED ASSOCIATION: **COMMITTEE AGAINST BIRD SLAUGHTER (CABS)**



Founded in 1975, CABS is an association based in Germany whose aim is to combat the poaching of migratory birds around the Mediterranean.

It works against the illegal hunting of wild birds, both with guns and with various traps and nets. CABS members intervene where hunters, trappers or dealers violate nature conservation laws.

All actions are carried out in close cooperation with environmental authorities, law enforcement agencies, regulatory agencies and customs offices. The aim is to preserve endangered animal species and to combat cruelty to animals.

Hunting and trapping are of course not the only threats to migratory birds: intensive agriculture, habitat degradation, climate change and environmental poisoning are also important causes of decline for some species. However, CABS has specialised and is a recognised expert in the fight against poaching.

The 'bird protection camps' are central to their work: in collaboration with local partner NGOs in each area, its members and volunteers carry out field surveys to search for illegal traps and hunting equipment.

They also monitor migratory bottlenecks and staging areas where migratory birds are targeted by poachers. They also seek to collect evidence to facilitate the arrest of poachers by the police.

Project supported since 2019

FUNDS DONATED IN 2023: **€2,000**

By Bioparc Conservation for the overall functioning of the association.



2023, a record year

In Cyprus, more than 1,500 limesticks were dismantled and 761 birds released. At the same time, the CABS team observed a massive reduction in bird trapping on the island in winter and spring.

Across all the CABS intervention zones, 268 poachers were convicted, over 2,000 migratory birds rescued and released, 382 nets, 3,876 glue devices, 1,363 other types of trap and 74 firearms confiscated!



NATURE PROJECT ROOTS & SHOOTS

COUNTRY: FRANCE

NOUVEAUTÉ 2023



Jane Goodall Institute
France

SUPPORTED ASSOCIATION: JANE GOODALL INSTITUTE FRANCE (JGIF)



Created in 1977 by Dr. Jane Goodall internationally and in 2004 in France, the Jane Goodall Institute (JGI) is an environmental conservation NGO recognized worldwide for its seriousness, its impact and the hope that it anime.

By protecting chimpanzees and inspiring action to preserve the natural world, the Jane Goodall Institute aims to improve the lives of people, animals and the environment. Raising awareness among young people is one of the two objectives of the JGI. As such, the mission of each branch is to raise awareness among the young generation of the fragile balance between men, animals and nature, through an education program aimed at developing a taste for finding things for themselves. solutions to the problems they identified. This program, called Roots & Shoots, reaches 700,000 young people in more than 50 countries.

Project supported since 2023

FUNDS DONATED IN 2023: €2,000

By Bioparc Conservation for actions carried out in France.

You can take action with the Roots & Shoots Program!

Get involved with the Jane Goodall Institute France and the Roots & Shoots program to take concrete action in favor of people, animals and our shared environment.

Two ways to join the Roots & Shoots program:

- By integrating your own project into the network and sharing your experience with other initiatives in France and around the world,
- By joining one of the proposed campaigns.

Examples of projects in France: tree plantations in Honfleur, creation of a grain library in Bourgoin-Jallieu, creation of 2 educational trails in Bistroff, etc.



NATURE PROJECT NORTHERN BALD IBIS

COUNTRY: SPAIN

SUPPORTED ASSOCIATION: PROYECTO EREMITA (IN COLLABORATION WITH JEREZ ZOO)



The Northern Bald Ibis (*Geronticus eremita*) (NBI) disappeared from Europe about 3 centuries ago and is now Critically Endangered globally (IUCN) with an estimated population of less than 300 individuals in the wild.

There are many reasons for the decline of this species, such as the conversion of extensive pastures into cereal or vegetable crops, the urbanization of nesting sites and poaching.

In addition to this, there has been a positive aspect in recent years: more than a thousand individuals living in animal parks are doing well and making it possible to implement a key aspect of the protection of threatened species: reintroduction into the wild. Thus, in the early 2000s, the Jerez Zoobotanico in Andalusia launched the "Proyecto Eremita", which has since been joined by the Bioparc.

Project supported since 2008

FUNDS DONATED IN 2023:

- BY THE BIOPARC: €450
- BY BIOPARC CONSERVATION: €1,387.44

By Bioparc Conservation for the purchase of a GPS transmitter.

Return to the first human-guided migration from Germany to Spain

With changing climatic conditions and for the survival of colonies established north of the Alps, Waldrapp's team has set up a new migratory route between the north of the Alps and Andalusia where Proyecto Eremita follows a population of NBI.

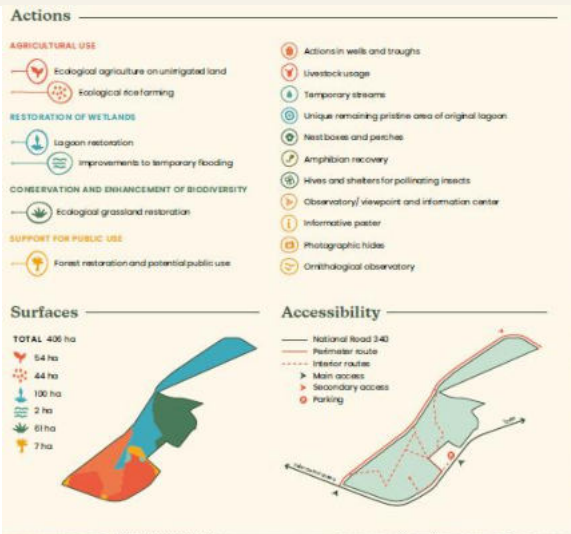
It was on August 21 that this great epic took off and arrived on October 3! A very important welcoming committee awaited them to celebrate these 6 weeks and 2,300 km traveled with no less than 300 people! On their arrival, the ibises joined the aviary which usually accommodates ibises born in animal parks and were released into the wild several weeks later.



NATURE PROJECT LA JANDA LAGOON

COUNTRY: **SPAIN**

SUPPORTED ASSOCIATION: **AMIGOS DEL PERICON**



The lagoon of La Janda has been the most extensive wetland in Spain, with up to 7,000 ha flooded. It is a shallow, freshwater wetland with dense vegetation, located in a strategic area for birdlife!

Successive attempts at drainage and cultivation stopped in the 1960s. Enormous losses are assumed for both its ecological functions and its biodiversity. Thanks to this location, the presence of relict wetlands and the extensive rice fields, the Janda is still home to an exceptionally rich birdlife.

Project supported since 2021

FUNDS DONATED IN 2023: €150

By Bioparc Conservation for the overall functioning of the association.

Proposal for an agroecological reserve around the Janda Lagoon

The Amigos del Pericon alliance proposes the creation of this reserve with the following objectives:

- To partially restore the lagoon by recovering natural and semi-natural wetlands
- To partially restore the lagoon, through the recovery of natural and semi-natural wetlands
- To promote the conservation of wild species and biodiversity
- To develop a project demonstrating the usefulness of ecological agriculture
- Establish a management model that improves the quality of life of local communities, the economy & biodiversity
- Demonstrate the value of the natural and cultural heritage of the ancient lake

The alliance has also signed a land loan agreement with the Barbate municipality. The area involved would be 406.37 ha, of which 249.89 ha are occupied by agricultural land or pasture, the rest being private irrigated land for sale. The construction of various facilities has begun: a walking circuit, a restaurant for visitors, and an observatory. New cultivation practices that are more respectful of the environment have also been implemented since 2022!



THE NATURE PROJECTS ASIA

| Country | Species and /or habitat concerned | Structure supported | Mission/action | Funds provided in 2023 |
|-----------|-----------------------------------|--|---|------------------------|
| INDONESIA | Sumatran tiger | Program Konservasi Harimau Sumatera | The team actively fights for the conservation of the tiger by resolving conflicts caused by the animal's presence, strengthening habitat protection, monitoring population trends, and helping villagers benefit from environmental conservation. | €17,698.76 |
| MONGOLIA | Snow leopard | Snow Leopard Trust | Snow Leopard Trust supports Mongolian herders by providing economic development, such as handicrafts, in exchange for respect for one of the world's most endangered felines. | €6,185 |
| INDONESIA | Javan leopard | OFORA Foundation | Conservation of the Javan leopard in Ujung Kulon National Park is one of the missions of OFORA, including the collection of data on the species. | €5,101.28 |
| NEPAL | Red panda | Red Panda Network | The "forest guardians", villagers trained by Red Panda Network to monitor red pandas, ensure the protection of red pandas and the sustainable management of their habitat. | €2,220 |
| INDONESIA | Songbirds | Prigen Conservation Breeding Ark (PCBA) | PCBA is an ex-situ conservation organisation for the breeding of endangered species. Songbirds are the first species to be hosted and bred here. | €2,000 |

A big THANK YOU to the partners who supported the following projects in 2023:

PKHS: Zoo de Jurques, Zoo de Maubeuge.

A big THANK YOU to the following partners who have supported our Nature 2022 Projects in their globality:

2ACOM - CENTRAL COM, 2MCR, 2MNT, ACTS, Andégave Communication, Anizons Investissement, Aquaval, Arènis, Arkétype, Association Zoonaute, Avenir Communication, AXA Agence L. Hamon, Beaumard optique, Berger Paysage, Berjamin & Fils, Bureau d'Études Bioparc, Caves de Grenelle, Clopy, Construction Douessine, Corbé 49 Cuisine Professionnelle, CORDERIE DOR, Crédit Agricole Doué-la-Fontaine, D. Bossard peinture, DE MASSEY Cyril, Delbar & Belda, Deluxebase Limited, Domaine de la Paleine, Domaine de l'été - Château des Rochettes, Entre Loire & Côteaux, Even Transports, Favry Emballages, FERAC, Good for All, Guéret carrelage, Initio Conseil, Intermarché de Doué La Fontaine, JA GASTRONOMIE, Kaiteri Creations, Lamy élagage, Le Prieuré de la Dive, Lecomte, Leray Sécurité, Les Laboratoires Brothier, Leuké, LIBERTY-CAMPER, Lilo, Locaser, Loire Impression, Maison Langlois, MGAV, MVD Menuiserie, NPCOMM, Passenaud recyclage, Petjesworld, Pierisol, Pierre Chabot, Pierre Gay, Prolians Martin Heulin, SARL Pierre Gay, Smurfit Kappa Maine Emballages, SNEG Propreté, STH, Super U Doué-la-Fontaine, Tolède groupe assurances, VEGETAL SERVICES, Véron-Diet.

A big THANK YOU to the partner merchants who installed rounding on TPE in 2022 and 2023 for the Nature Projects:

L'Écho des Bocaux, L'Auberge Bienvenue, Les Chemins de la Rose, La Duchesse Anne, Hôtel Le Londres, Hôtel Saint Pierre Saumur, Angibaoud Photo, La Mine D'or, La Boîte à Créa, La Suite by Le P'tit Salon, Cave Coup de Foudre, We Fit Doué la Fontaine, Autour d'une fleur

THANK YOU also to all the individual donors for their valuable support!

NATURE PROJECT SUMATRAN TIGER

COUNTRY: **INDONESIA**

SUPPORTED ASSOCIATION: **PROGRAM KONSERVASI HARIMAU SUMATERA (PKHS)**



While the population of tigers in the world, all species combined, was more than 100,000 individuals in 1900, today there are only around 4,000, including 400 Sumatran tigers, present only on the Indonesian island of the same name. The causes of this decline? Mainly poaching (for the beauty of this feline's fur and the trafficking of organs used in traditional Chinese medicine), the destruction of forest habitat associated with the decline in the number of prey and, despite ancestral respect for an animal both feared and revered, human-tiger conflicts.

Since 2005, the Bioparc has been working with the Program Konservasi Harimau Sumatera (PKHS) to save the Sumatran tiger (*Panthera tigris sumatrae*), the smallest of the tiger subspecies in the world. PKHS activities are carried out jointly in the Way Kambas National Park (south of the island). This involves carrying out patrols and monitoring populations of tigers, their prey and habitats. The team is working to ensure the supply of drinking water for wild animals in the dry season. PKHS and the national park rangers also note all the clues and evidence of illegal activities: logging, fishing, encroachment on the forest, traps for wildlife.

The Bioparc and Bioparc Conservation have been the primary financial supporters of PKHS since 2023 and therefore participate in the overall functioning of the association!

Project supported since 2005

FUNDS DONATED IN 2023:

- BY THE BIOPARC: **€6,215**
- BY BIOPARC CONSERVATION: **€11,483.76**

For the overall functioning of the association.



Environmental awareness and education

In addition to the missions mentioned above, PKHS invests in the younger generation, for example, by co-financing a volleyball tournament aimed at improving young people's knowledge of the species and the aim to have a better understanding of related conservation issues. This tournament took place over 3 days, in March 2023, and brought together 182 participants and around 300 spectators!



NATURE PROJECT SNOW LEOPARD

COUNTRY: **MONGOLIA**

SUPPORTED ASSOCIATION: **SNOW LEOPARD TRUST**



© SLCF-Mongolia | SLT

The **Snow Leopard Trust** studies the snow leopard and protects its habitat.

It supports the herders in their breeding work and helps them to develop the wool economy, in exchange for respecting one of the most endangered felines in the world.

In order to study the snow leopard population and estimate its evolution, about twenty individuals are tracked by GPS.

In the most vulnerable territories for the preservation of this majestic feline, community rangers act and intervene on the front line. They often work in difficult conditions, sometimes putting their own lives at risk, to fight illegal hunting.

Travelling up to several thousand kilometers a month on their motorbikes, they patrol the Tost Nature Reserve in southern Mongolia to prevent poaching, but also to record traces of snow leopard passage and to record the presence of rare plants for example.

Project supported since 2001

FUNDS DONATED IN 2023: **€6,185**

By Bioparc Conservation, aid is provided to 50 herding families in the Gobi Desert in Mongolia.

Livestock protection, the heart of the solution

SLT's long-standing conservation programs place local communities at the heart of the solutions. These valued partners play a vital role in co-creating and implementing conservation actions that secure their livelihoods while protecting wildlife.

Predator-proof corrals reduce livestock losses, and community-run livestock insurance initiatives provide peace of mind and a safety net for ranchers.

In 2022, it is: 306 corrals, including 64 new or repaired, protecting 16,435 domestic animals, and securing 2,114 homes.



NATURE PROJECT JAVAN LEOPARD

COUNTRY: **INDONESIA**

SUPPORTED ASSOCIATION: **OFORA FOUNDATION**



The Javan leopard (*Panthera pardus melas*) is endemic to the island of Java in Indonesia and is in danger of extinction. Estimated at less than 320 individuals, the wild population of the Javanese leopard suffers mainly from the disappearance of forests.

The Javan Leopard occupies the tropical forests, mountains and dry deciduous and scrub forests in the east of the island.

Human-animal conflicts are also considered a major threat to the species, especially due to population growth and agricultural expansion.

In 1992, a decree from the Minister of Forestry designated Ujung Kulon as a National Park (UKNP), covering an area of 78,619 ha of land and 44,337 ha of sea. OFORA is active in the conservation of wildlife, including the Javan Leopard. Among the many other species represented are the Javan rhinoceros, the Indian muntjac, the wild boar, the crocodile, the large-flying fox and various species of primates.

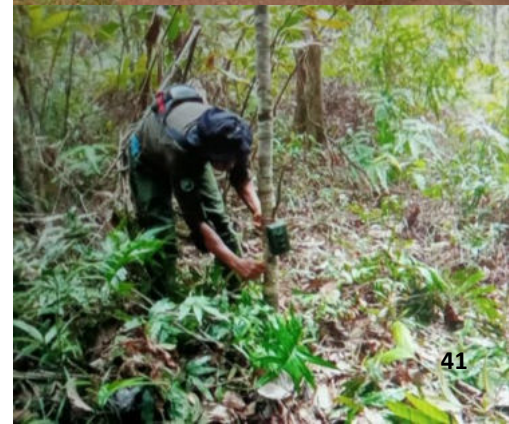
For the Javan leopard, the NGO's goal is to collect data on the species in order to better determine its population size, to mitigate human-animal conflicts and to keep its habitat as comfortable as possible.

Since the start of our support, the IUCN status of the species has been reviewed and a 5-year action plan has just been launched and will end in 2028!

Project supported since 2021

FUNDS DONATED IN 2023: **€5,101.28**

By Bioparc Conservation for the 2023 mission.



A look back at the Java Leopard monitoring mission in 2023

For 20 days, 7 people (national park ranger, OFORA team and 5 people from the local community) travelled through several areas of Ujung Kulon National Park to collect biological data.

These data were used to determine the distribution, potential existence and population of the Javan leopard in the Mount Honje area. Indications of presence (scratches and footprints) were found, but the 3 camera traps installed were stolen in the same areas...

NATURE PROJECT RED PANDA

COUNTRY: **NEPAL**

SUPPORTED ASSOCIATION: **RED PANDA NETWORK**



Red Panda Network (RPN) is a non-profit organization created in 2005 in the United States, whose main mission is to combat the decline of the red panda in its natural habitat in Nepal. By working with forest users, it finds solutions that benefit the conservation of the species, its habitat and the needs of humans. It has created a team of "forest guardians", male and female villagers, trained and salaried, to monitor the red panda population.

The support provided by the Bioparc makes it possible to finance the annual salary of a forest guardian: Surat Kumar Rai! In addition to participating in the protection of the red panda, this funding also supports the independence of women in Nepal, who are increasingly joining this program.

RPN also conducts studies in collaboration with the local government and carries out awareness-raising activities in schools in particular.

Deforestation, a synonym for the degradation and fragmentation of the red panda's habitat, is the primary cause of the species' decline: it is estimated that the number of red pandas remaining in the wild has dropped by 50% in 20 years: there are now less than 2,500 individuals living in the wild globally!

Project supported since 2013

FUNDS DONATED IN 2023:

- BY THE BIOPARC: €1,449
- BY BIOPARC CONSERVATION: €771

For the salary of a forest guardian.



Our forest guardian



Key figures from the red panda research and monitoring program

- 95 forest communities have adopted the community species monitoring program
- 304 km covered in red panda habitat by the RPN anti-poaching unit
- 58 of the 100 forest guards were trained to monitor the population of this species and its habitat
- 6 new monitoring zones established in the distribution area of the species
- 6 new forest communities participated in the presence-absence survey of the red panda



NATURE PROJECT SONGBIRDS

COUNTRY: INDONESIA

SUPPORTED ASSOCIATION: PRIGEN CONSERVATION BREEDING ARK (PCBA)



PCBA in June 2023

Prigen Conservation Breeding Ark (PCBA) is a breeding center for endangered Indonesian species. It was created in 2017 thanks to the cooperation between several institutions, and following the EAZA campaign called Silent Forest, denouncing poaching and illegal trafficking of songbirds in Southeast Asia in particular.

The main mission of the PCBA is to ensure a future for these species through breeding and rearing for eventual release into the wild.

Project supported since 2022

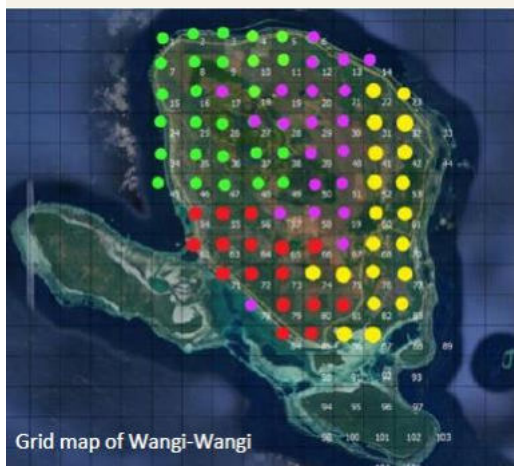
FUNDS DONATED IN 2023: €2,000

By Bioparc Conservation for the overall functioning of the association.

Focus on the Wangi-Wangi White-Eye, in danger of extinction

The first comprehensive study has been carried out since June 2023 on the distribution, population status and ecology of the Wangi-Wangi white-eye (*Zosterops paruhbesar*), a species discovered exactly 20 years ago! At the same time, the team is working on environmental awareness and education programs in order to improve the living conditions of the population of Wangi-Wangi Island.

The first results show that the species remains distributed across the entire island but depends on tall vegetation. There is cause for concern as the birds appear to be quite sensitive to human habitat alteration and appear to avoid recently cleared land and areas surrounding construction sites, leading to habitat reduction available on Wangi-Wangi for the Wangi-Wangi white-eye...



Support Bioparc Conservation

Our Bioparc Conservation Fund allows any person or organization wishing to do so to support our Nature Projects financially. Created in 2010, it is chaired by Pierre Gay. Donations are tax deductible (check with your national legislation) and are entirely donated to the Nature Projects.

By helping us, you become an actor of conservation and you reinforce our mission to protect biodiversity! Thank you for your help and thank you to all past, present and future donors of Bioparc Conservation (private donors, partner zoos, associations, companies) for their generosity and faithfulness!

FOR INDIVIDUALS

Make a donation and work with us to protect nature

By supporting one of our 30 Nature Projects, you are helping to protect the species concerned in their natural environment.

Your benefits:

- a digital badge with the image of the supported project
- the annual activity report of the Nature Projects
- a tax receipt allowing you to deduct your donation from your taxes

Your donation entitles you to a tax deduction of 66% up to a limit of 20% of your taxable income. A donation of €100 actually costs you €34 (check with your national legislation, information valid in France).

SCAN THE
QR CODE TO
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DONATION
LINE!



Do your Internet research with



Through your internet searches, you collect drops that you can then donate to our fund to support our Nature Projects!

Think about legacy, donations and life insurance

Bioparc Conservation is authorized to receive legacies, donations and life insurance policies.

CONTACT US FOR MORE
INFORMATION!

FOR COMPANIES

Become a sponsor and share our mission to protect nature

Take advantage of the tax benefits of donation, deducting your donations up to 60% within the limit of €20,000 or 5% of the turnover excluding tax (CA HT). A donation of €5,000 actually costs you €2,000. (check with your national legislation, information valid in France).

Enhance your commitment by relaying the progress of our Nature Projects to your employees and take advantage of our influence to make your support visible.

CONTACT US FOR MORE
INFORMATION!

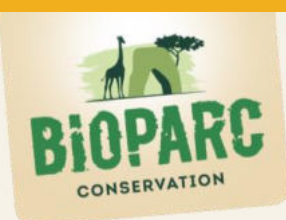
Become a sponsor by setting up & collecting micro-donations in your business

Enhance your commitment by informing your employees and customers of the progress of our Nature Projects and take advantage of our influence to make your support visible.

This solution offered on **Electronic Payment Terminals (EPT)** is not subject to VAT and the donations collected are not included in your revenue.

POSSIBLE THANKS TO A
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