

LETTER FROM THE CEO

Dear Supporters of Jocotoco,

As in the previous year, Jocotoco doubled the funds spent on protecting threatened biodiversity in 2022. We are poised to do the same in 2023. This uninterrupted growth poses many demands on our employees, who nevertheless cope extremely well. While growth is not an objective in itself, the accelerating global loss of biodiversity requires all mankind to act faster and more decisively. On-site local organizations such as Jocotoco are one of the most effective and cost-efficient solutions to address global conservation priorities. In alignment with our funding, we at least doubled our impact in 2022 relative to the previous year. Our biggest win for conservation was the official declaration of the 60,000 km² large marine reserve that protects the swimway between the Galapagos Islands and Cocos Island in Costa Rica.

To safeguard ecosystems from the high Andes to the Amazon, we developed a comprehensive program in the Napo region – at its core lies our Narupa reserve. The program aims to connect protected areas across 914,290 acres (370,000 ha) in order to build resilient landscapes that allow viable populations of large animals with large home ranges, such as Spectacled Bears and Jaguars, to thrive. When we preserve these animals, we also save the thousands of smaller species living in the same environment.

Overall, for the implementation of regional programs, such as the Chocó and Podocarpus-El Cóndor, which

you will learn about in the next pages, Jocotoco collaborates with local and national authorities, scientists, NGOs and the communities surrounding us. Humans are part of the ecosystems we care for, which is why we support our neighbors in developing more sustainable land use forms, reforesting their watersheds, and helping with the creation of ecotourism programs. In these collaborations, conservation is both our guiding principle and our unique contribution. Our coordination testifies to the increasing complexities – and the increasing rewards – of achieving conservation wins in progressively large areas.

Jocotoco acquires land strategically to maximize impactful results. We expand our reserves to connect them to national parks and fend off increasingly large portions of them. This connectivity is ecologically relevant, as it enables dispersal and gene flow among the populations of animals living in our reserves and within the national parks. Crucially, it also ensures that the national parks remain remote. Remoteness is critical, as the example of the governmental Mache Chindul Reserve shows. This very important but accessible reserve already lost half of its forest. We prevent such developments in the government protected areas adjacent to our reserves by employing ten times as many park guards per area. In our regional programs we thereby grant effective shielding of a network of protected areas that is large enough to secure the long-term viability of entire ecosystems.

So far, I have shared some of the strategic thoughts guiding us. None of the ground level tactics of implementation would be possible without our staff. Time and time again, I am humbled and inspired when accompanying our staff in the forests we protect. Their knowledge and keen eye, but mainly their passion fills me with joy. It is that passion that keeps them out on long night walks, oftentimes until 5:30 am, documenting the species we protect. Even though I have worked in the neotropics for 30 years, our park guards, young parabiologists, and our reserve administrators and directors teach me something new each day. What an honor it is to serve the people that make up Jocotoco. It is as uplifting as it is promising to see this group of predominantly young people who care deeply about their environment. Our growth enables us to provide the next passionate generation of conservationists with the opportunity of meaningful jobs. After all, it is their work that achieves the extraordinary impact we build together daily, and projects it into the future.

I hope you enjoy reading about some of our achievements in more detail, and I thank you for supporting us in many ways, from visiting our reserves, to volunteering, to offsetting your carbon emissions, and donating.

With gratitude,

Martin

Marsin







MISSION AND CORE VALUES

EMPLOYEES

RESERVES 84

OFFICE 26

INTERNATIONAL

Our mission is to support the conservation of Ecuador's biodiversity, focusing on threatened species and ecosystems, backed by scientific evidence, and establishing partnerships with local stakeholders.

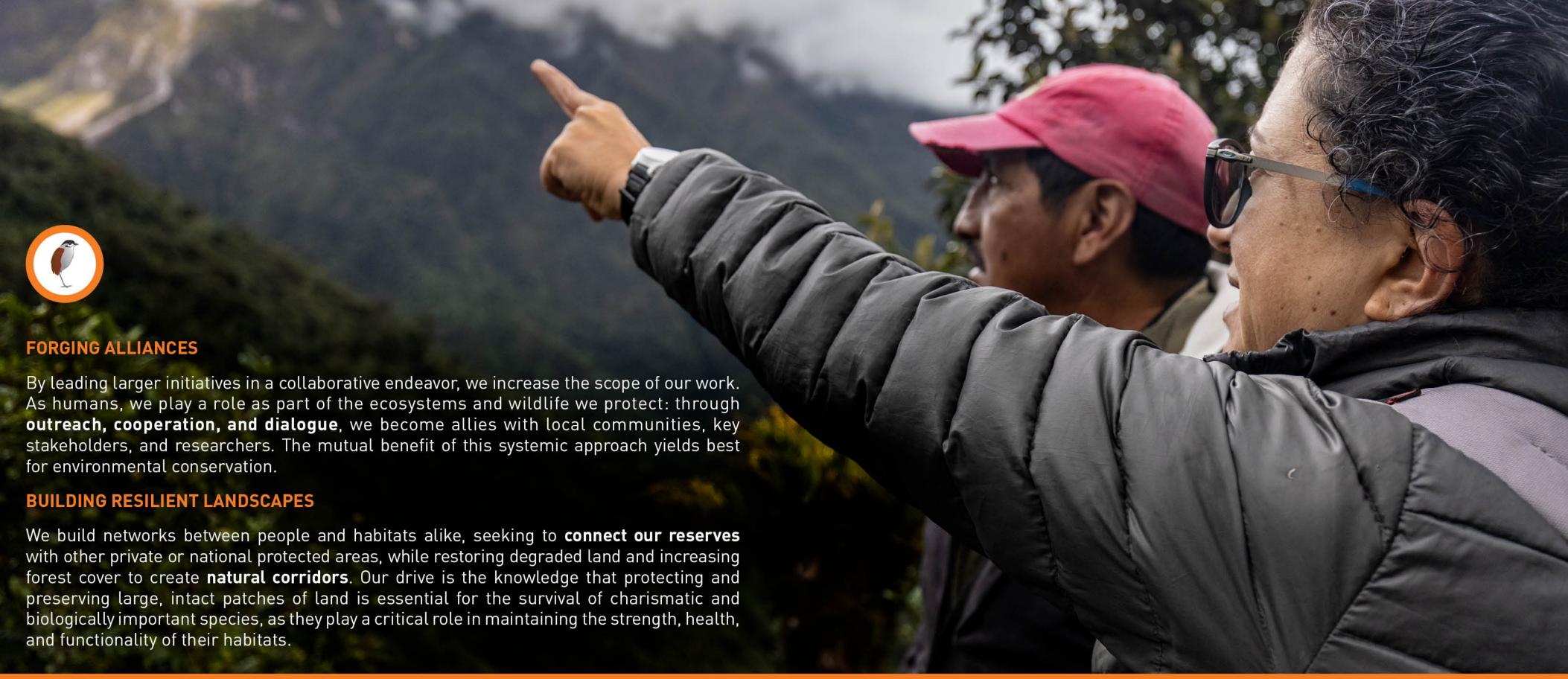
Jocotoco strongly believes that preserving biodiversity has an intrinsic value. We act on our belief through the creation of protected areas and our work with communities.

We also believe in people: it is the people who inspire us and who achieve conservation successes. We strive to provide opportunities for personal growth to all staff, contractors, and volunteers.

Our work is guided by treating others and ourselves honestly, transparently, and fairly. We always strive for effectiveness and excellence.









PODOCARPUS-EL CÓNDOR PROGRAM

At the heart of the Podocarpus-El Cóndor program lies Tapichalaca, home of the Jocotoco Antpitta and the inception of our conservation story. Caught between the peaks of the Andes and the plains of the Amazon, the Cordillera del Cóndor emerges, a mountain range older than the Andes. Due to this geography, the region is one of the most biodiverse places on Earth, with countless species occurring nowhere else. Our local teams manage three protected areas that connect with national parks, establishing a continuous network of more than 712,911 acres (288,505 hectares). Building this corridor is vital for biodiversity: it ensures habitats are large enough for healthy populations of mammals, birds, amphibians, and plants while preserving water sources for local communities.

- TAPICHALACA RESERVE
- NATIONAL PARKS
- ACMUS PALANDA

JOCOTOCO MANAGEMENT: 173,327 ACRES / 70,143 HECTARES





JOCO-PEOPLE IN PODOCARPUS-EL CÓNDOR

STORIES

MEET JENNIFER MARTÍNEZ, LANDSCAPE COORDINATOR

Born in Cuba, Jennifer has more than 10 years of experience protecting threatened plant species, namely orchids. She joined Jocotoco to lead the Podocarpus – El Cóndor restoration program, organizing activities in situ to create jobs for farmers. Her expertise helps to improve forest recovery from rigorous seed collection to successful seedling growth and selecting suitable places to restore the forest. "I have the privilege of turning my hobby into my profession because there is nothing I like more than admiring Ecuador's stunning landscapes."



MEET DIEGO VELÁSQUEZ PARK GUARD

Diego enjoys bird monitoring and feeding the Jocotoco Antpitta. When he started as a park guard 15 years ago, he practiced birdwatching with volunteers and learned common names in English. "Everything I have experienced here helped me focus on conservation and teach people around my community to preserve the forest. When they complain about the birds feeding on their corn crops, they know now that having a healthy forest provides multiple benefits from water to soil." We are proud that our committed employees serve as ambassadors for what Jocotoco stands for.













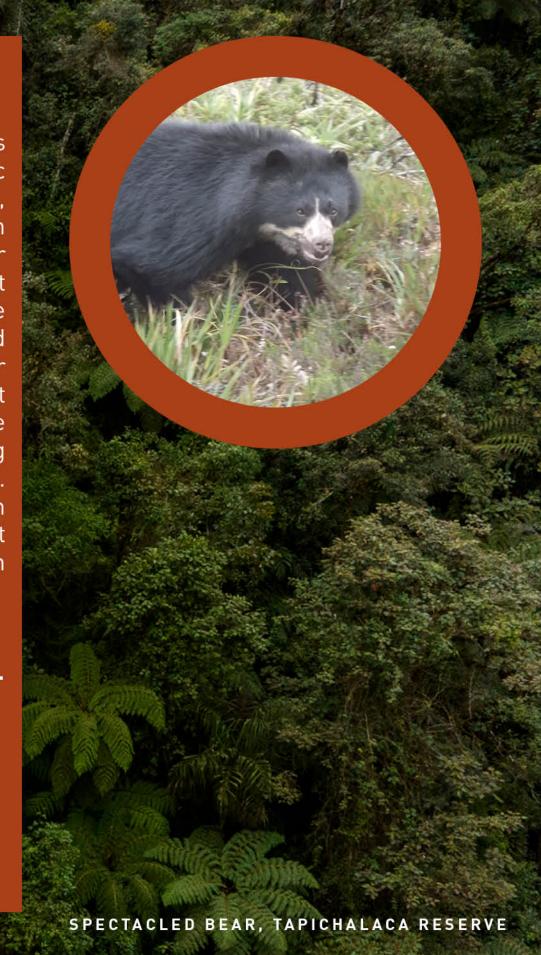
SPECTACLED BEAR

The Spectacled Bear is the only bear species inhabiting South America. These charismatic creatures require large areas to roam, depending thus on reduced fragmentation and increased connectivity. Thanks to our work in Tapichalaca and Palanda, we protect a healthy bear population in and around the reserves' boundaries. Whether captured through our camera traps or spotted by our dedicated park guards, we know that at least 22 individuals live in Tapichalaca and move freely and safely between our neighboring national parks: Podocarpus and Yacuri. Preserving Tapichalaca, the only link between the national parks, is crucial to ensure that the Spectacled Bears continue to flourish in southern Ecuador.

Spectacled Bears have unique facial markings allowing for individual recognition.

HERE ARE 20 BEARS FACIAL MARKINGS.
DO YOU SEE THE DIFFERENCE?

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CHOCÓ PROGRAM

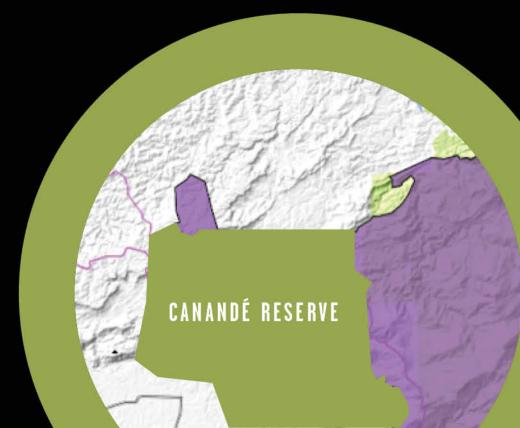
CANANDÉ

The Canandé Reserve is situated within the last remnants of the lowland Chocó Forest. The region is highly threatened by rampant deforestation. This is why Canandé is the largest reserve we protect, embedded in Ecuador's northwestern Andean foothills, and teeming with species that live exclusively here. Canandé is surrounded by the native Chachi in the north and by Mestizo settlers elsewhere. In Jocotoco, we aim to strengthen the legal protection of our reserve, scale local and indigenous solutions, and reinforce protected area management of the neighboring Cotacachi-Cayapas National Park, El Pambilar Wildlife Refuge, and several communitymanaged forests. Our work will have a lasting impact on the conservation of the Chocó rainforest by multiplying positive effects and providing data, knowledge, and procedures to intensify long-term networks for conservation of more than 741,144 acres (300,000 hectares) of this biodiversity hotspot.

CANANDÉ RESERVE

GOVERMENT PROTECTED AREAS

SURFACE UNDER JOCOTOCO MANAGEMENT: 26,225 ACRES / 10,613 HECTARES



JOCO-PEOPLE IN THE CHOCÓ

STORIES

MEET LADY CONDOY, PARABIOLOGIST

Lady assists an Ecuadorian botanist in the field and learns about plants and insects feeding on their leaves. She told us her life had positively changed since she started working for Jocotoco. "Before I came here, I didn't know that animals had specific names and that there was so much diversity. I share this knowledge at home now, and I love it! My family is charmed by how I express my passion for nature and conservation. I can feel how it grows day by day."

MEET SILVIA VÉLEZ, PARABIOLOGIST

Silvia comes from a nearby small community called "La Yuca." She's learning about animals that decompose the wood in the forest and is joyful when explaining her new job. "I have witnessed deforestation before, but now I perceive things differently because I can see how the forests are restoring in Canandé, and I watch nature thriving. It's like waiting with hope for nature to return the way it was before." Our parabioligists provide a lot of value to visiting scientists, as they help them to navigate the forests and find not only the pathways, but the specimens they came to study.

MEET JOSÉ AÑAPA, PARK GUARD

José is from a neighboring Chachi community. Skilled in observing birds, he has a keen eye for spotting macaws and primates amidst the trees, so he decided to strive and learn common names to guide tourists. He compares the diversity between his local community and that of the reserve. "If I consider my local community, where there are almost no forests remaining, in contrast, Canandé is filled with a diverse array of plants and animal species that we are in charge of conserving."















BRIDGING SCIENCE AND CONSERVATION

Jocotoco is special in integrating science and tangible conservation on the ground. Our Canandé Reserve hosts the large research project REASSEMBLY at the Chocó Lab. Led by the Technical University of Darmstadt (Germany), it involves 14 other universities, including several Ecuadorian ones. Currently, twelve Ph.D. students carry out novel experiments to study the astonishing speed of rainforest recovery.

Canandé is proof that we can transform pastures into lush forest again when large swaths of intact land are protected in time to allow for natural regeneration. At the Chocó Lab, we have been able to quantify the return of wildlife in just one human generation. It seems like magic... but it's science!

LARGEST EMPLOYER IN THE REGION!



BIODIVERSITY

The high number of endemic and threatened species shows why protecting Canandé is strategic. During an expedition into the remote part of our reserve, researchers from the Instituto Nacional de Biodiversidad (INABIO) and Reassembly discovered eight species new to science that exist safely thanks to our protection. We celebrate two new orchid-pollinating bees that apparently cannot survive in disturbed areas, as well as two new species of mammals (a rodent and a bat), two new frog species, and two tree species. These discoveries emphasize the importance of our Canandé Reserve, showing that the small distribution ranges of many species may shrink if the rampant deforestation of the Chocó continues.

BROWN-HEADED SPIDER MONKEY

The Chocó constitutes a unique habitat for the survival of the highly threatened Brown-headed Spider Monkey. This species depends on well-connected and undisturbed areas, such as the one we protect in Canandé, for it to prosper. The numbers are encouraging: as of this date, there are at least 300 individuals living in the area.

FEWER THAN 500 REMAIN IN THE WILD!

GALÁPAGOS PROGRAM

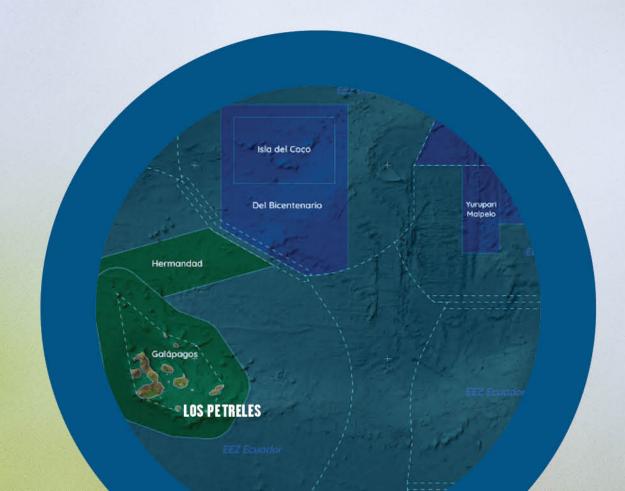
"HERMANDAD"- PRESERVING MARINE LIFE ACROSS BORDERS

IT'S BEEN JUST OVER A YEAR SINCE THE CREATION OF THE NEW MARINE RESERVE "HERMANDAD".

The area protects 60,000 km², extending across a submarine mountain range where large fish, whales, and marine turtles migrate. It connects the National Parks Galápagos and Cocos Island between Ecuador and Costa Rica, and owes its fraternal name to the joint actions of both nations. Jocotoco created the management plan for "Hermandad" and orchestrated the active participation of communities and stakeholders. This international project includes the eradication of invasive species on Cocos Island as well.

Critically, we have played a key role in building solutions that support the financial sustainability for the vigilance and management of this new marine reserve. Working with our partners, The Pew Charitable Trusts and Re:wild, we were able to include the establishment of

this marine reserve into the conditions for Ecuador's debt restructuring. The fund solely supports the two marine protected areas, it does not support terrestrial conservation on the Galápagos or on the continent. As such, Jocotoco's work remains as vital as ever. We need your continued support for our work that leverages other funding strategically.





JOCO-PEOPLE GALÁPAGOS PROGRAM

JUAN CHÁVEZ – GALÁPAGOS PROJECT MANAGER

Juan has vast experience managing protected areas across Ecuador. His role at Jocotoco is to reduce the threats of invasive species that imperil native fauna. He supervises the eradication of invasive feral cats and rats on two islands, Wolf Volcano on Isabela and in our Los Petreles reserve on San Cristóbal. His understanding of eco-friendly construction is ideal for building sustainable facilities with clean energy and responsible water use on both islands. Juan is keen on reproducing native plants: "I enjoy building nurseries to restore the humid highlands of San Cristóbal." This year, he will apply his talents to restore Floreana Island.



KEEPING INVASIVE SPECIES IN CHECK

Endemic wildlife characterizes Galápagos. In contrast to the continent, habitat loss is not the key conservation challenge. Instead, invasive species are the main threat. For example, the Galápagos Petrel and Pink Land Iguana are both critically endangered owing to predation by feral cats and rats. Our efforts to control these menaces have allowed both species to reproduce successfully in 2022. This is the first time ever that park rangers from the Galápagos National Park and Galapagos Conservancy recorded juvenile pink iguanas. Likewise, a rapidly increasing number of Galápagos Petrels fledges thanks to their nests being protected at our reserve, named in their honor.

Motivated by these results, Jocotoco is leading the implementation of a bold strategy to eradicate introduced animals in Floreana, allowing the entire island ecosystem to recover. The next step will be reintroducing 13 locally extinct species: reasons for hope abound!





JOCO-HIGHLIGHTS

NEW SPECIES THRIVE WITHIN OUR RESERVES **DISCOVERY OF MAGNOLIA BUENAVENTURENSIS**

A new species of magnolia has been found in our Buenaventura Reserve!

Magnolia buenaventurensis is not only a new species, it is the first record of this genus in southwestern Ecuador. Our park guards from the Canandé Reserve and botanist Álvaro Pérez have a lot of experience in identifying magnolias. They surveyed the forests around the Buenaventura Reserve, teaching the local park guards how to recognize flowers and fruits. "We were lucky," said Amado de La Cruz, "we thought we were not going to find an unknown magnolia species, but on the last day, before leaving, we found a juvenile tree." The expedition showed how cooperative work among reserves could boost our outcomes in species protection.

After this first exploration, an intensive search for adult trees started. Our park rangers from Buenaventura found 15 individuals blossoming in our reserve, and they expect to find more.





Two critically Endangered and endemic tree species from the Chocó rainforest, *Magnolia canandeana* and *Magnolia dixonii*, are increasing in numbers. Less than 60 adult trees exist of both species, but we brought them back from likely extinction. Our team is working to guarantee their long-lasting survival.

We have also planted 401 seeds of *Matisia* palenquiana and 380 seeds of *Ecuadendron* acosta-solisianum. In addition, we found a total of 900 seedlings of *Matisia* palenquiana that were transplanted to our reforestation areas to secure their growth.

MAGNOLIA CANANDEANA: 15,843 SEEDS COLLECTED, 2,260 INDIVIDUALS PLANTED BACK IN ABANDONED PASTURES (58 INDIVIDUALS FOUND IN THE WILD)

MAGNOLIA DIXONII: 2,766 SEEDS COLLECTED, 602 SEEDLINGS, 576 INDIVIDUALS PLANTED BACK IN REFORESTATION PATCHES (38 INDIVIDUALS FOUND IN THE WILD)





shores, are returning to nest at "Las Tunas" beach. Our dedication to reduce egg mortality is crucial to keep these numbers rising.

2020 2021 O NESTS 3 NESTS 6 NESTS







JOCO-PARTNERS

В

Abbott, Margaret Allen, Brian Averill-Murray, Roy and Laurie

Baltimore, Terry Bendersky, Martin Berry, Brenda Blomquist, Patrik Blüthgen, Nico Bogott, Andrew Borelli, Anthony Boyd, Roger Bradbury, Monica Bradstreet, Michael Brehm, Gunnar Butler, Barbara

C

Carreno, Ines Carter Adams, Sarah Castaneda, Monica Cevallos, Michael Cole, Damon Collerton, Anthony Connolly, Gillian Curtiss, Lisa

D

DeVos, Jacqueline Dewenter, David Drummond, Barbara Dumet, diego

Ē

Estel, Ray

Farrell, Tiffany

Farto Bello, Ramiro Fiero, William Flügge, Kiki Forening, Den Dyriske Freeman, Emma Friend, Kaleb

G

Getty, Stephen Gilliland, Frank Goitia, Laura Gordon, Victoria Green, Michael

Hale, Allen

Harris, Bert Harris, John Henderson, Dale Hodges, Heather Hollanders, Martinus Hollingsworth, Mark D. Holm, Alexander Holrick, Helena Hettler Sabine and Family

Irmer, Juliette

Hummel, Lani

Jennings, Walter and Linda Jones, Catherine

K

Karasin, Noel Knyshevski, Irina Kopp, Florian

Larson, Shirley Lingenhoehl, Daniel Lockwood, Mark

Macari, Anne

Magee, Catherine Malbin, Joshua Malengreau, Alain Mallory, Ron McCarthy, Katie Lorraine Meade, Tracy Merrigan, Michelle Mills, Mark Muchmore, James

Nash, Barbara Newman, David Nicolaisen, Hanne Niggli, Claudio Niner, Fred

O'Brien Daniel Olewine, Benjamin Olmstead, Scott T

Pache, Gregor Papay, Julie Pavon Valencia, Alex Peltomaa, Anders Perez, Matthew Peterson, Lynn Platt, Elizabeth Pretti, mark Pugh, Simon

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Recer, Gregg Reisbeck, Jordyn Rhoades, Dustin Ridgely, Robert Roels, Rob and Starla Rousseau, Francois Rowlett, Rose Ann

S

Schacher, Brigitte Schmied, Gabriel Schubert, Tilman Schwenne, Ellen Smith, Frank Smith, Lise Steinhardt, Bruce Stone, Karla

T

Taggart Dorothy and Rush Tamariz Estefanía Tempsick, Kevin Thomas, Ollie Thomas, Rochelle Trask, Barbara Tremlett, Constance

U

Uquillas, Jessica

Van den DungenRomy Van DijkMarc Van Turnhout, Chris VanHyning, Lesa Vincent, Stijn Von Liven, Susan and Gregor W

Wechsler, Doug Weiman, Rick Willinger, Gunther Wyman, Jules

Yau, Mansum Young, Yavonne

INTERNATIONAL **ORGANIZATIONS**

American Bird Conservancy

Banco de Desarrollo de

America Latina - CAF

Bezos Earth Fund

Birdlife Ecuador BirdLife Denmark Blue Action Fund Butler Foundation Danish Ornithological Fund Darwin Initiative DOB Ecology Durrell Wildlife Conservation Trust - DWCT Ecosia Fondation Franklinia Fondation Segre Fresno Audubon Society Galapagos Conservation Trust Global Environment Facility -GEF Green Future Project Hurtigruten Foundation International Conservation Fund of Canada Lookfar Conservation Loro Parque Fundación Luxembourg Climate Fund March Conservation Fund Münich Zoo Hellabrunn National Fish & Wildlife Foundation - NFWF

Pew Bertarelli Ocean Legacy Quick Response For Nature Rainforest Trust Re:wild Silicon Valley Community Foundation Synchronicity Earth Technische Universitat Darmstadt - TUDa ThankU Social

The Mohamed bin Zayed Species Conservation Fund The Shearwater Foundation USFWS - National Migratory Bird Conservation Act Vogelpark Marlow

Wilhelma Zoologisch-Botanischer Garten Stuttgart World Land Trust Zoological Society for the Conservation of Species and

Populations - ZGAP

Microcervecería Sinners

National Geographic Society -

MotMot Clothing

Ombar Chocolate

Rosero Construye

Omer Decugis

NovaCredit

Pintulac

Soleg Travel

Terra Viajes

Lindblad Expeditions

COMPANIES Coffee Lab

Copiful GRUNTEC Kubiec Linde

PARTNERS

Agencia de Regulación y Control de la Bioseguridad y Cuarentena Para Galápagos Alianza Jambato Amaru Bioparque Cuenca Asociación Ally Guayusa Aves y Conservación Centro de Rescate Jambelí Comuna Ancestral Las Tunas Comuna Guambuzari Comuna Las Balsas Comunidad Chachi de Corriente Lucas Bustamante Grande Comunidad Chachi de Gualpí

Comunidad Chachi de Sabalito Comunidad Kichwa Ávila Viejo Comunidad Kichwa Jondachi Comunidad Kichwa Mondayaku Comunidad Kichwa Nueva Esperanza Comunidad Kichwa Pachakutik

Comunidad Kichwa Payamino Comunidad Kichwa Wamaní Dirección del Parque Nacional Galápagos

Fondo para la Protección del Agua - FONAG Fondo Para Control de Especies Invasoras de Galápagos

Frente Insular Fundación Charles Darwin - FCD Fundación Cóndor Andino

GAD Municipal de Palanda GAD Parroquial Isla Floreana Instituto Nacional de Biodiversidad

- INABIO Island Conservation Los Aliados

Ministerio de Turismo -MINTUR

Ministerio del Ambiente, Agua y Transición Ecológica - MAATE Save the Chocó

Subsecretaria de Recursos Pesqueros Transnave - Transportes Navieros Ecuatorianos

Universidad del Azuay Universidad Regional Amazónica IKIAM Universidad San Francisco de Quito -USFQ

WildAid

PHOTOGRAPHERS

James Muchmore Javier Aznar Nicolas Devos



*** We apologize if Jocotoco inadvertently omitted or misrepresented your name and are eager to make a correction to the digital version of this report. If you would like to alert us or learn more about how to support Jocotoco, please contact us via donations@jocotoco.org.eu

JOCO-FINANCES

This year the international community has pledged to preserve at least 30% of our planet's biodiversity to mitigate its current crisis (COP2022). In this context, there are more stakeholders willing to finance operations such as ours.

At Jocotoco, we have managed to obtain more support than ever before to execute more impactful conservation actions at a greater scale and with greater efficiency. The expansion of our programs propelled this growth, which is thus reflected in a much bigger field team.

We further automated and improved our accounting and financial processes, responding to more complex funding streams. We have successfully managed these changes without significantly increasing our expenses.

The strong financial growth during 2022 translates into greater stability and resilience for Jocotoco, but it also means that our personnel face greater challenges and responsibility in their continued commitment to protect the biodiverse and vulnerable ecosystems of Ecuador. Financing conservation is possible because of you!

REVENUE	2022	2021
Restricted Funds	\$4,989,551.00	\$2,151,417.00
Tourism	\$62,000.00	\$61,992.00
Land purchase and assets	\$3,220,721.00	\$3,166,083.00
Unrestricted funds	\$375,178.00	\$108,090.00
TOTAL	\$8,649,472.00	\$5,487,582.00
EXPENSES		
Reserve management	\$797,435.00	\$601,674.00
Conservation projects	\$2,878,753.00	\$752,834.00
Conservation salaries	\$761,862.00	\$407,331.00
Administrative salaries	\$238,082.00	\$203,604.00
Administrative costs	\$152,007.00	\$134,088.00
TOTAL	\$4,828,139.00	\$2,099,531.00
LAND		
Number of hectares managed	96,431 ha	95,021 ha
Number of hectares purchased	3,311 ha	4,488 ha
TOTAL	\$19,795,155.00	\$16,574,434.00
JOCOTOCO SUSTAINABILITY FUND (Canadian Dollars)	\$880,102.60	\$1,031,519.00





ENDANGERED HORNED MARSUPIAL FROG, CANANDÉ RESERVE

JOCO-DONATE

Jocotoco's ability to scale-up and take on larger and more complex conservation projects would not have been possible without the steadfast support of individuals and non-profit partnerships throughout the years. Looking ahead, Jocotoco needs your support for biodiversity conservation more than ever!

HERE'S HOW YOU CAN HELP:

Be a Legacy for Biodiversity! - include Jocotoco in your estate plans to ensure the permanent protection of Jocotoco's 15 Reserves for generations to come.

SHARE YOUR STOCK- WE ACCEPT DONOR ADVISED FUNDS & STOCK GIFTS!

MAIL A CHECK PAYABLE TO:

Jocotoco Conservation Foundation PO BOX 38274 Baltimore, MD 21231



Jocotoco Conservation Foundation is a tax-exempt non-profit organization, under the section 501(c)(3) of the Internal Revenue Code, and therefore all charitable donations are deductible to the full extent allowed by law. EIN: 83-2027203

FOR MORE INFORMATION CONTACT: DONATIONS@JOCOTOCO.ORG

