WE'RE MAKING
EXTINCTION A
THING OF THE PAST

000-01

INFUSING
CONSERVATION
WITH INNOVATION

REF 0000

colossal
FOUNDATION

2025

IMPACT REPORT

////

THE COLOSSAL FOUNDATION WORKS WITH CONSERVATION PARTNERS WHO UNDERSTAND THAT, IN THE FACE OF THE SIXTH MASS EXTINCTION CRISIS, THE MOST DANGEROUS DECISION IS TO ACCEPT THE STATUS QUO.

COLOSSAL IS MAKING EXTINCTION A THING OF THE PAST.

40+
SPECIES SUPPORTED

- **25+** Critically Endangered or Extinct-in-the-Wild Species
- **20+** "Lost" species targeted for rediscovery and protection
- **10+** Species reintroduction and rewilding projects
- **7** Major branches of life represented
- **12+** Keystone or culturally significant species

$100M
RAISED FOR CONSERVATION

- **$50** million deployed for conservation
- **$50** million secured for 2026
- **$17,300,000+** in direct partner investments
- **$15,700,000+** in disruptive conservation R&D
- **$5,500,000+** in frontline species recovery and rewilding
- **$5,000,000+** for global awareness and community building
- **$2,500,000+** in operational capacity and field ops

55+
CONSERVATION PARTNERSHIPS

- **33** nonprofit & conservation organizations
- **6** Indigenous Nations & Indigenous-led organizations
- **17** universities & research institutes
- **3** country-led stakeholder advisory bodies
- **18+** countries represented
- **26** Conservation Advisors
- **10+** partners co-leading rewilding & reintroduction programs

20+
TECHNOLOGIES PILOTED

- **AI and machine-learning** systems trained on wildlife behavior, communication, and ultra-rare species detection
- **Assisted reproduction** & cloning platforms
- **Gene editing**, cell engineering & functional genomics
- Next-generation **BioVaults**
- **Disease mitigation** and engineered resilience

MILLIONS REACHED AND AWAKENING TO WHAT'S POSSIBLE

- **2.9B+** media impressions bringing endangered species and conservation breakthroughs to audiences worldwide
- **341+** articles spotlighting Colossal Foundation projects across science, conservation, and mainstream outlets
- **449,773,420+** views on social content translating complex biodiversity challenges into accessible, inspiring stories
- **10,323+** public comments requesting specific species to be saved or brought back from extinction

A NOTE FROM OUR EXECUTIVE DIRECTOR

[SOURCE]

Every day at Colossal, we think about how to change the trajectory of life on Earth. And we don't do it alone. As I reflect on this past year, I'm deeply grateful for the community that has formed around our mission. Our conservation partners and collaborators have helped us build something that's both ambitious and urgently needed.

We are living at a critical juncture. Traditional conservation efforts remain essential, but the daunting truth is that these efforts aren't keeping pace with the rate at which humanity is destroying nature. The fabric of life on Earth is unraveling at a staggering pace. The good news is that, for the first time in history, we have the tools to begin stitching it back together. And Colossal is already reshaping what's possible.

Advances in genomic sequencing, gene editing, artificial intelligence and assisted reproductive technologies now allow us not only to prevent extinctions, but to restore what has been lost. But with possibility comes responsibility. We need a global community willing to embrace emerging technologies. A problem of this scale requires new approaches, new perspectives and a broader toolkit.

The path forward is bold. And there's no time for fear. This moment demands seeing de-extinction and breakthrough biotechnologies not as fringe concepts, but as frontline strategies in the fight for biodiversity. In the fight for a healthy planet.

The risk isn't in trying something new, it's in sticking to the same old playbook. A landmark study found that we underfund biodiversity protection by more than $700 billion annually. To close this chasm, we must build smarter, accelerate more efficiently, and harness new technologies to scale our efforts.

We are already seeing what is possible. Colossal is harnessing AI to understand wildlife and their ecosystems, using genetic engineering technology to improve resilience in endangered species, and enlisting proxy rewilding to restore lost ecological function.

Everything we do must be guided by responsibility, humility, ecological grounding and transparency. But we must act. The cautious road is paved with extinction. The bold road—the road that accepts risk, embraces innovation and refuses to be paralyzed by fear—leads to restoration, resilience and hope. Let us not be remembered as the generation that watched the Ark sink. Let us be remembered as the generation that rebuilt it, stronger, smarter and more effective than ever before. The tools are here. The science is real. The time is now. And the responsibility is ours.

Matt James
Executive Director, Colossal Foundation

Table of Contents

CONSERVATION, MEET DISRUPTION

The Colossal Foundation is Colossal Biosciences' independent 501(c)(3), built to turn world-first de-extinction and biotechnology tools into a practical de-extinction toolkit. We exist to help scale and accelerate on-the-ground conservation projects that protect at-risk species, restore ecosystems and build a durable safety net for life on Earth.

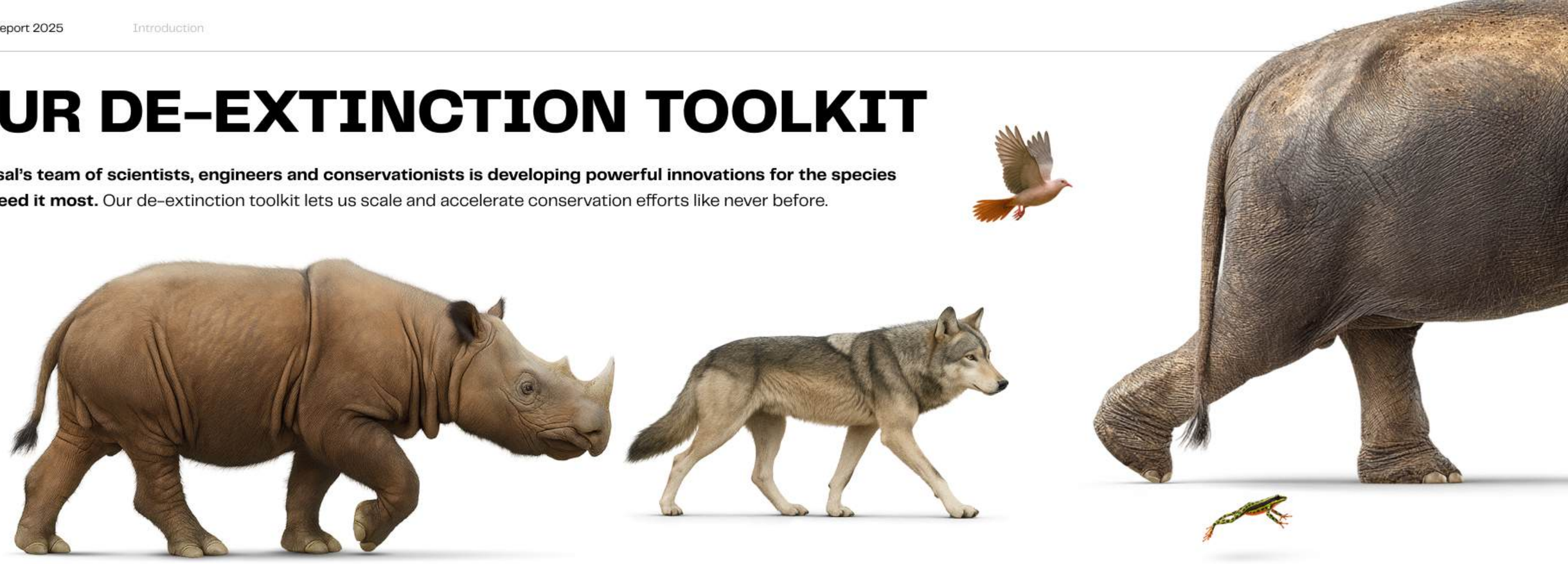
We work alongside conservationists, local communities and Indigenous partners to prevent extinction before it happens. That means genetic rescue for critically endangered mammals and birds, AI- and drone-enabled monitoring of animals and their habitats, and a global biobanking network designed to preserve the genetic diversity of the world's most vulnerable species.

Today, the Colossal Foundation is supporting dozens of projects around the world. As our technology advances, our role is clearer than ever: get these tools into the hands of those on the front lines of biodiversity loss, and scale conservation innovation fast enough to matter.

Image Credit: Ami Vitale

OUR DE-EXTINCTION TOOLKIT

Colossal's team of scientists, engineers and conservationists is developing powerful innovations for the species that need it most. Our de-extinction toolkit lets us scale and accelerate conservation efforts like never before.



GENOME SEQUENCING
[TECH_01]

BIOBANKING
[TECH_02]

MULTIPLEX GENE EDITING
[TECH_03]

COMPUTATIONAL BIOLOGY
[TECH_04]

POPULATION GENOMICS
[TECH_05]

DISEASE MITIGATION
[TECH_06]

ASSISTED REPRODUCTIVE TECH
[TECH_07]

DNA ASSEMBLY
[TECH_08]

CONSERVATION AT THE CUTTING EDGE

Complex issues require innovative solutions. Colossal's conservation framework connects cutting-edge technology, genetic insight, biotechnology, species restoration, and community-led rewilding into a continuous pathway that protects wildlife from the moment they are hard to find to the moment they return home. By linking these five pillars into one end-to-end system, we create a modern model for safeguarding biodiversity and giving threatened species a real chance to recover.

LOCATING, MONITORING, & TRACKING

01 PROGRAM

Colossal uses AI, drones, bioacoustics, and community-led fieldwork to reveal the hidden lives of endangered species and detect threats in near real-time. These technologies help conservationists act sooner and protect wildlife ranging from wolves and elephants to vaquitas and lost bird species.

SAFEGUARDING GENETIC DIVERSITY

02 PROGRAM

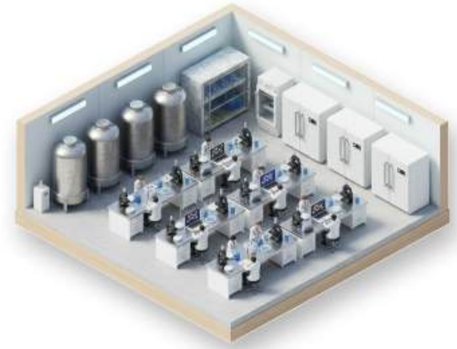
Colossal preserves the genetic foundations of biodiversity through high-quality reference genomes, advanced sequencing, and a global biobanking network. These resources protect irreplaceable diversity and guide conservation strategies that strengthen species for the future.

ENGINEERING RESILIENCE

03 PROGRAM

Colossal develops biotechnology solutions that reinforce natural defenses when species face threats they cannot overcome alone. Through vaccines, gene editing, and molecular engineering, we create tools that help wildlife survive deadly diseases, toxins, and emerging pressures.

GENETIC RESCUE & SPECIES PROPAGATION



04 PROGRAM

Colossal restores populations on the brink by combining cloning, assisted reproduction, and genomic analysis to recover lost diversity and rebuild healthy lineages. These technologies offer new pathways to save species like the American red wolf and support global efforts to prevent extinction.

REWILDING

05 PROGRAM

Colossal works with Indigenous nations, local communities, and conservation partners to return species to their native habitats and restore ecological balance. Through funding, scientific support, and long-term collaboration, we help wildlife thrive again in the environments that shaped them.

| COLOSSAL FOUNDATION CONSERVATION FRAMEWORK |

CONSERVATION PROGRAM

LOCATING, MONITORING, & TRACKING

DECODING THE SECRET LANGUAGE OF WOLVES

YELLOWSTONE'S WOLVES ARE SPEAKING, AND FOR THE FIRST TIME, WE ARE LEARNING TO LISTEN.

Together with our partners, the Colossal Foundation is pioneering a revolutionary new way to monitor and protect wolves through AI-powered bioacoustics. We deployed one of the world's most advanced large-scale acoustic monitoring grids to transform Yellowstone into a living soundscape. This AI-enabled network of "digital ears" listens day and night, capturing and decoding thousands of individual wolf howls. This yields unprecedented insights into how wolves communicate, pack dynamics, population trends and behavior, and helps us detect threats in real time. We're creating a blueprint to protect wolves and support coexistence with the human communities that share this landscape.

GRAY WOLF HOWL SPECTROGRAMS

“This is the most detailed acoustic study of wild wolves ever conducted, and it’s only the beginning.”

GrizzCam vision and audio AI monitoring unit

Dan Stahler
Yellowstone Wolf Project

48

Total autonomous recording units deployed across Yellowstone National Park

7K

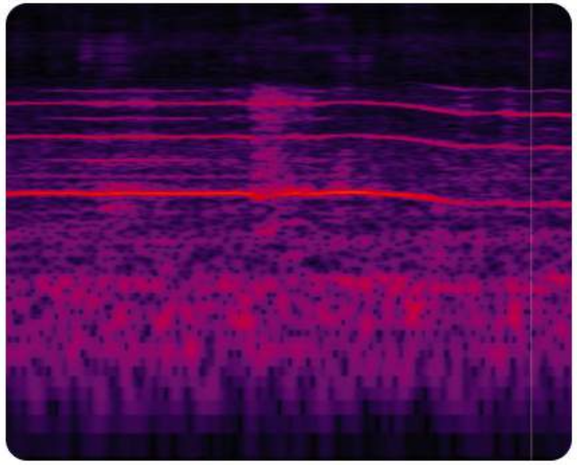
Unique howling events verified to train AI models

4

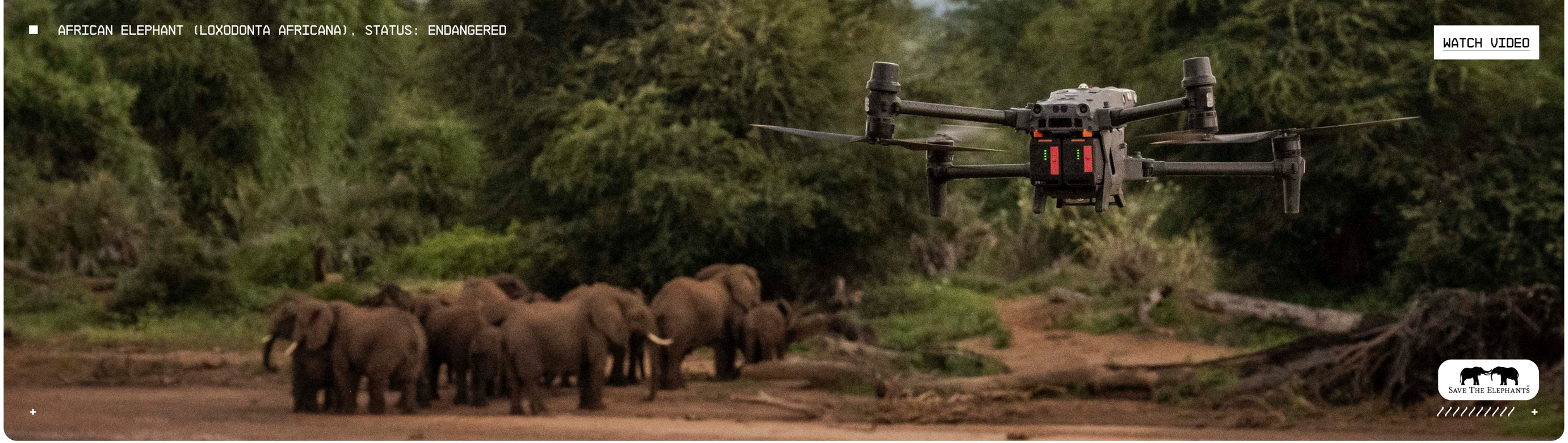
Wolves fitted with the first-ever audio-logger collars (sound + GPS + motion)

200K+

Hours of audio being processed with AI models




colossal



UNLOCKING THE HIDDEN LIVES OF ELEPHANTS

TO SAVE ELEPHANTS,
WE MUST FIRST UNDERSTAND THEM.

Tracking elephant behavior traditionally requires invasive and costly methods, like close-range observation or physical collaring. We partnered with Save the Elephants to change this. By deploying a fleet of high-resolution, thermal-equipped drones paired with Colossal's machine learning core, we created a passive tracking system to map elephant movements and behaviors from above.

Using Colossal's AI models, we're able to identify individual elephants, track movements and sleep patterns, recognize specific behaviors, and assess their health.

Image Credit: Save the Elephants

35 

Drone trials conducted on 14 specific elephant families to validate non-invasive monitoring protocols

114 

Hours of high-resolution and thermal imagery captured and analyzed to study social dynamics and movement patterns

70%

Reduction in disturbance behaviors observed after repeated drone flights, proving elephants can habituate to the technology

3100%

Increase in rate of behavioral scans relative to ground observational sampling, with consequent increase in analytical insight

Locating,
Monitoring
& Tracking

“New technologies are expanding our ability to perceive, analyse, and understand the wild world in ways previously unthinkable. This work opens a new window into how elephants live—and how we can protect them.”

Frank Pope
CEO, Save the Elephants

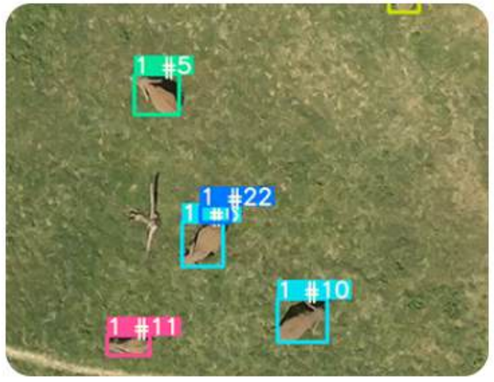


Image Credit: Save the Elephants (drone with elephant, close up of DJI controller, top down view of single elephant)

FINDING THE "LITTLE DODO"

WE'RE USING AI TO DETECT ONE OF THE WORLD'S RAREST BIRDS.

The tooth-billed pigeon (or manumea) is one of the dodo's closest living relatives. And it's on the brink of extinction. Its population has collapsed from thousands in the 1980s to fewer than 100 today. To save this critical member of Samoa's ecosystem, we first had to find it.

The Colossal Foundation partnered with the Samoa Conservation Society. We provided key funding for field expeditions and deployed a revolutionary new AI tool to listen for this lost bird. We successfully confirmed the presence of the tooth-billed pigeon, giving field teams their first verifiable sign of the bird in over a decade. We then shared our open-source algorithm with conservationists around the world to use in their search for other lost or elusive bird species.

95%

Accuracy of the Colossal-built AI algorithm in detecting the bird's unique call

5

Minutes of audio from the 1980s used to train the algorithm, a revolutionary and replicable new tool that can be enlisted for future projects

2

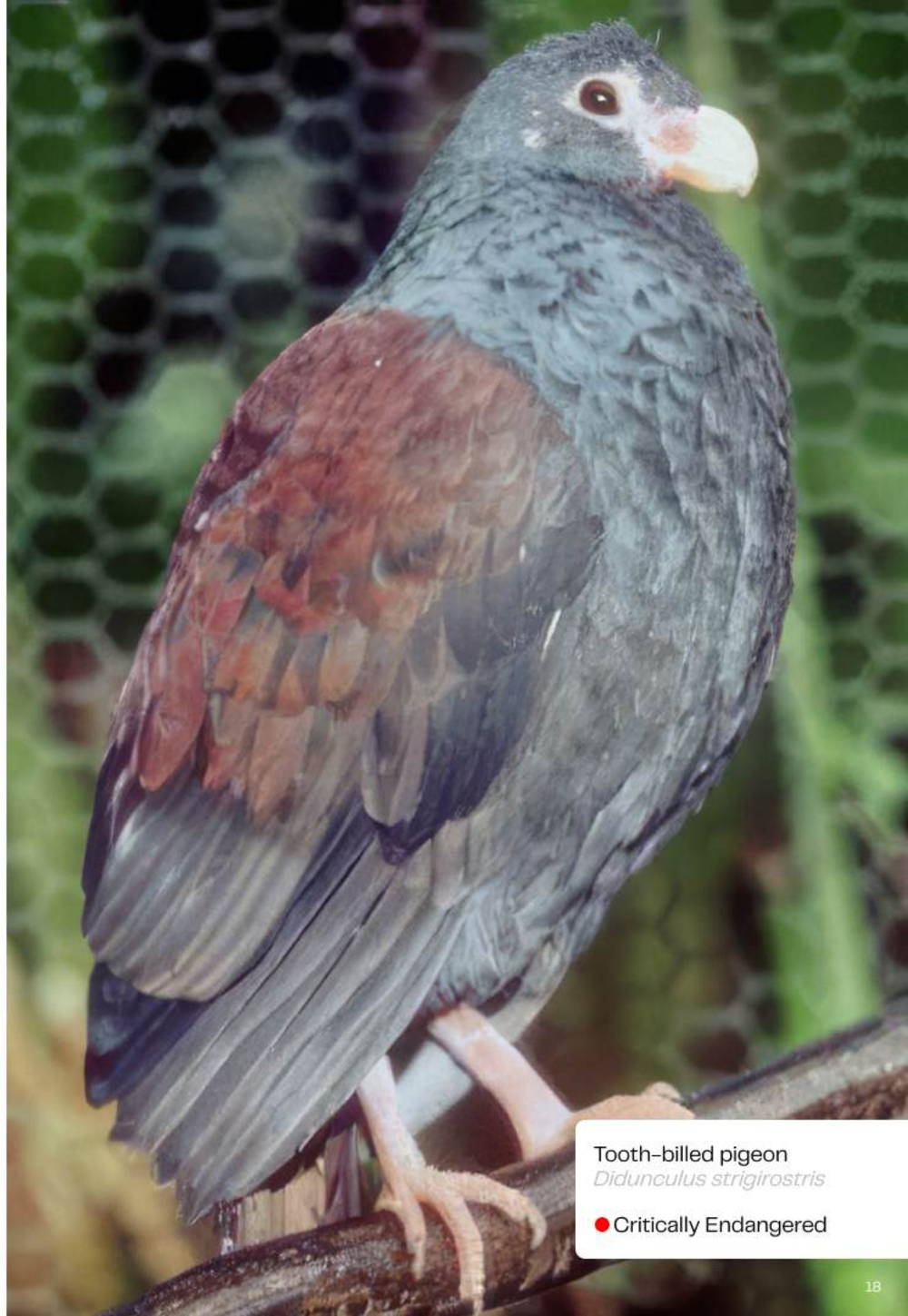
Field expeditions funded and deployed in Samoa's rainforests (2024–2025)

1ST

Genome of the tooth-billed pigeon sequenced and assembled from ancient DNA

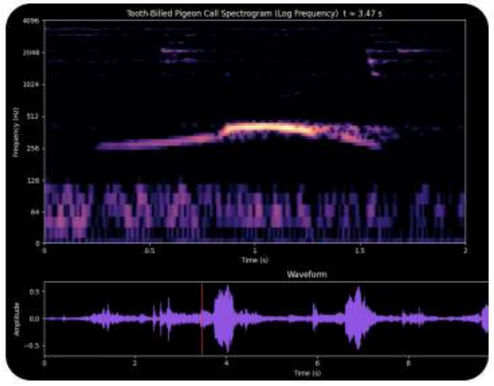
> *"We still have a chance to save these extraordinary creatures, and the technology being developed by Colossal will be critical, not just for the manumea, but for many other endangered birds globally."*

Joe Wood
Co-Chair, IUCN SSC Pigeon & Dove Specialist Group



Tooth-billed pigeon
Didunculus strigirostris
Critically Endangered

Image Credit: Ulf Beichle



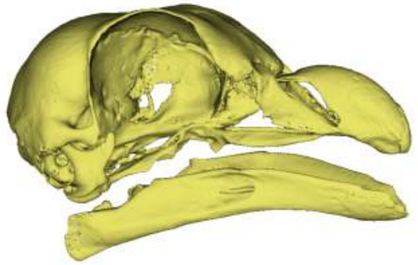


Image Credit: Sarah Gillett (top left), Samoa Conservation Society (expedition)

MONITORING THE WORLD'S MOST ENDANGERED PORPOISE

WE'RE EMPOWERING COMMUNITIES TO BECOME GUARDIANS OF THEIR OWN SEA.

The vaquita is the most endangered cetacean on the planet, driven to the edge of extinction by gillnet fisheries both legal and illegal. In 1997, there were over 500 vaquitas. Today, only a handful remain.

The Colossal Foundation is supporting Pronatura Noroeste and CONANP to empower the local community of San Felipe on the Gulf of California to safeguard the vaquita. Through training, new monitoring technology, including GPS systems and drones—and direct involvement in monitoring expeditions, local youth and women are now leading efforts to track, document and protect the last remaining vaquitas. By slowing the decline, we've created a window for recovery.

9

Vaquita sightings recorded by community monitoring group

1,828 KM

Patrolled by community vessels across 207 hours of visual effort

18

Local community monitors trained, including youth and women

1ST

Use of Big Eyes binoculars and drones by local citizen scientists in the Upper Gulf

"The community of San Felipe has become the heart of vaquita conservation. What was once a story of loss is now a story of shared responsibility and hope."

Valeria Towns
Director Of Conservation, Pronatura Noroeste


Vaquita
(Phocoena sinus)
Length 3.9 - 4.9 ft (1.2 - 1.5 M)
DORSAL FIN
DORSAL RIDGE
PEDUNCLE
FLANK
EAR
EYE
BLOW HOLE
POSTERIOR
VENTRAL
PECTORAL FIN
ANTERIOR
CONSERVATION STATUS ..... CRITICALLY ENDANGERED
TROPHIC LEVEL ..... CARNIVOROUS
SCIENTIFIC NAME ..... PHOCOENA SINUS
HIGHER CLASSIFICATION ..... HARBOR PORPOISES
LENGTH ..... 3.9 - 4.9 FT. (ADULT)
WEIGHT ..... 98 LBS (ADULT)
SPEED ..... 22 MPH (35.4 KMH)
LIFESPAN ..... 16 - 21 YEARS (ADULT)
colossal
PELAGIC

SEARCHING FOR THE WORLD'S "MOST WANTED"

WE'RE PREVENTING UNSEEN CREATURES FROM FADING INTO HISTORY.

There are more than 4,300 species currently lost to science. But these animals and plants, not documented in the wild for over a decade, may not yet be extinct.

The Colossal Foundation acts as the accelerator for Re:wild and its Lost Species program's "Most Wanted" initiative. We provide the funding and advanced technology needed to launch expeditions for the most elusive creatures on Earth.

20

Lost species supported

9

Expeditions supported by the Colossal Foundation this year

1

Rediscovery (Wellington's Solitary Coral), found in the Galápagos after decades unseen

1

C A T A C T G C G G C G T
T G G C A G G G G G T T C
G C A T G T C C C A C G C
G A A A C T A C T G C G G

Ancient DNA extraction planned at Colossal to sequence the genome of the Fat Catfish

> *If we lose something we didn't know we had, even our technology won't be able to bring it back.*

Matt James
Chief Animal Officer, Colossal

Bullneck Seahorse
Hippocampus Minotaur

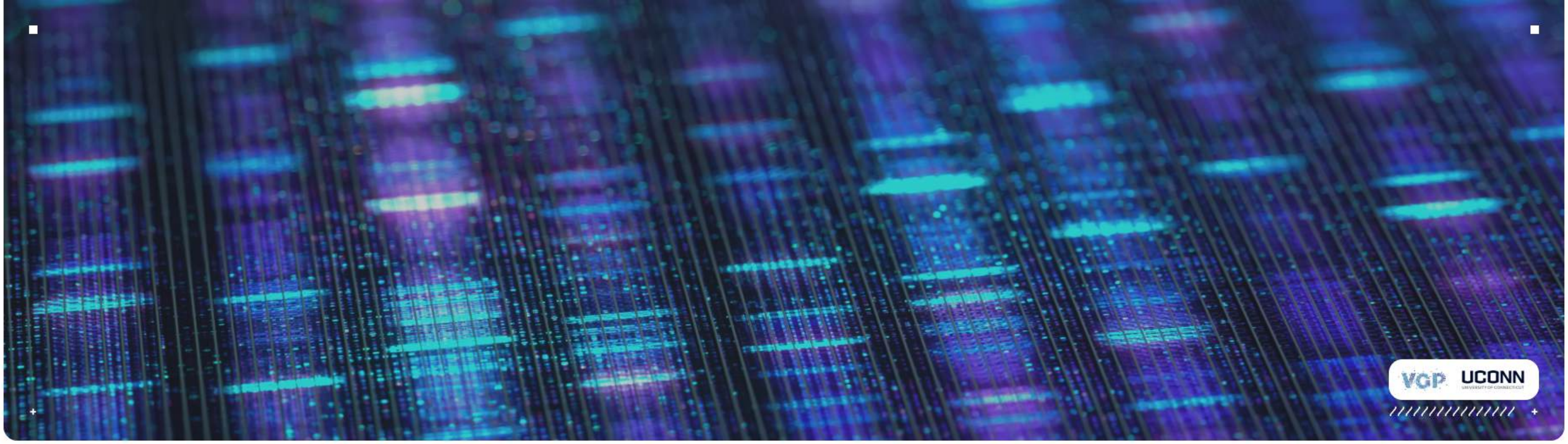
Never seen in the wild

The Colossal Foundation is supporting Re:wild's search by deploying state-of-the-art technology to collect DNA from specimens and locate these lost creatures.

Image Credit: Graham Short

CONSERVATION PROGRAM

SAFEGUARDING GENETIC DIVERSITY



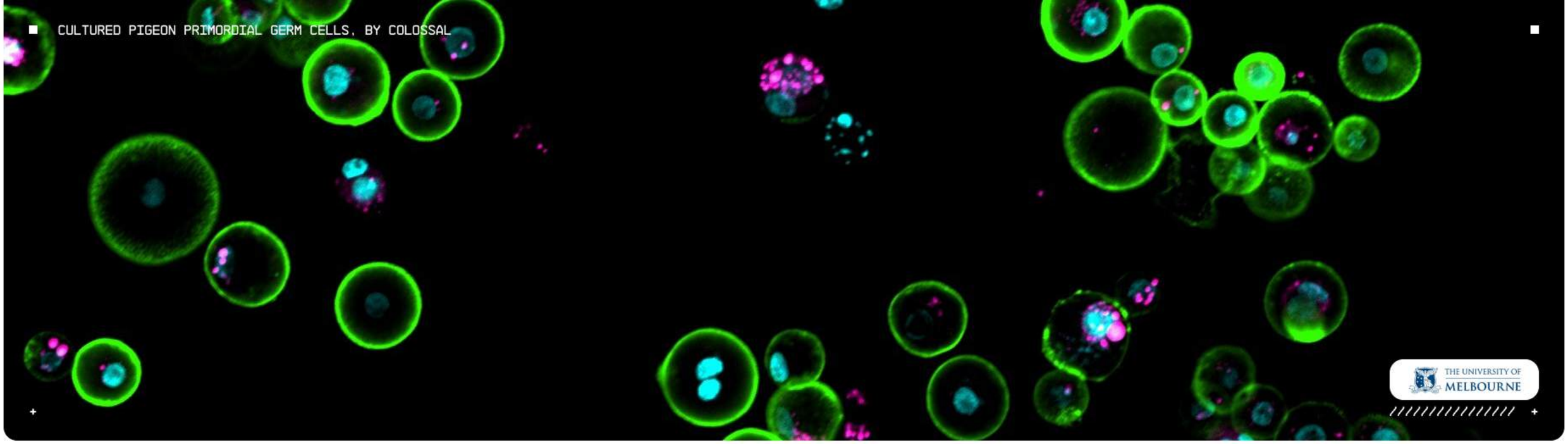
CATALOGING LIFE'S DIGITAL LIBRARY

WE'RE CREATING REFERENCE GENOMES TO UNLOCK A SPECIES' EVOLUTIONARY STORY.

Healthy species depend on healthy genomes. Without understanding the full genetic architecture of endangered animals, conservationists are often forced to manage populations blind, missing critical information about inbreeding, disease vulnerability, evolutionary history and adaptive potential.

To close this gap, the Colossal Foundation is building high-quality reference genomes for endangered species worldwide and open-sourcing them to the conservation community. These genomes are a foundational resource for modern conservation technologies, from assisted reproduction to genetic rescue. They function as the definitive genetic map for each species, a blueprint that researchers can use to track population health, identify lost diversity, spot harmful mutations before they spread, and guide recovery efforts.

Sequencing a species' genome for the first time is like giving conservationists the answer key to saving it.



LAYING THE GENOMIC FOUNDATION FOR BIRD CONSERVATION

WE'RE BUILDING THE GENOMIC BLUEPRINT BIRDS NEED TO SURVIVE A RAPIDLY CHANGING WORLD.

Birds are disappearing at unprecedented rates. And as species disappear, we lose key components of ecosystems, including pollinators, insectivores, and spreaders of seeds, with negative impacts for both human and planetary health. Yet compared to their mammalian counterparts, birds lag far behind in genomic resources. This limits conservationists' ability to understand population decline, detect genetic vulnerabilities, and guide recovery efforts.

In 2025, the Colossal Foundation made a landmark step to close that gap, donating $1.5 million to support the University of Melbourne's work in Australian avian conservation genomics. By dramatically expanding the number of high-quality genomes across the avian tree of life, this project strengthens conservation planning, enables deeper understanding of climate resilience and disease resistance, and supplies global databases with critical new data.

The resulting genomics toolkit will support threatened birds across Australia and around the world, laying the groundwork for informed conservation decisions, advanced breeding programs, and precision genetic rescue.

> *“Genomes allow us to understand how species adapt, resist disease, and survive change. This investment will help guide conservation action for birds globally.”*

Beth Shapiro, Ph.D.
Chief Science Officer, Colossal

1 IN 8
Bird species at risk of extinction

$1.5 M
Colossal’s donation to change the tide

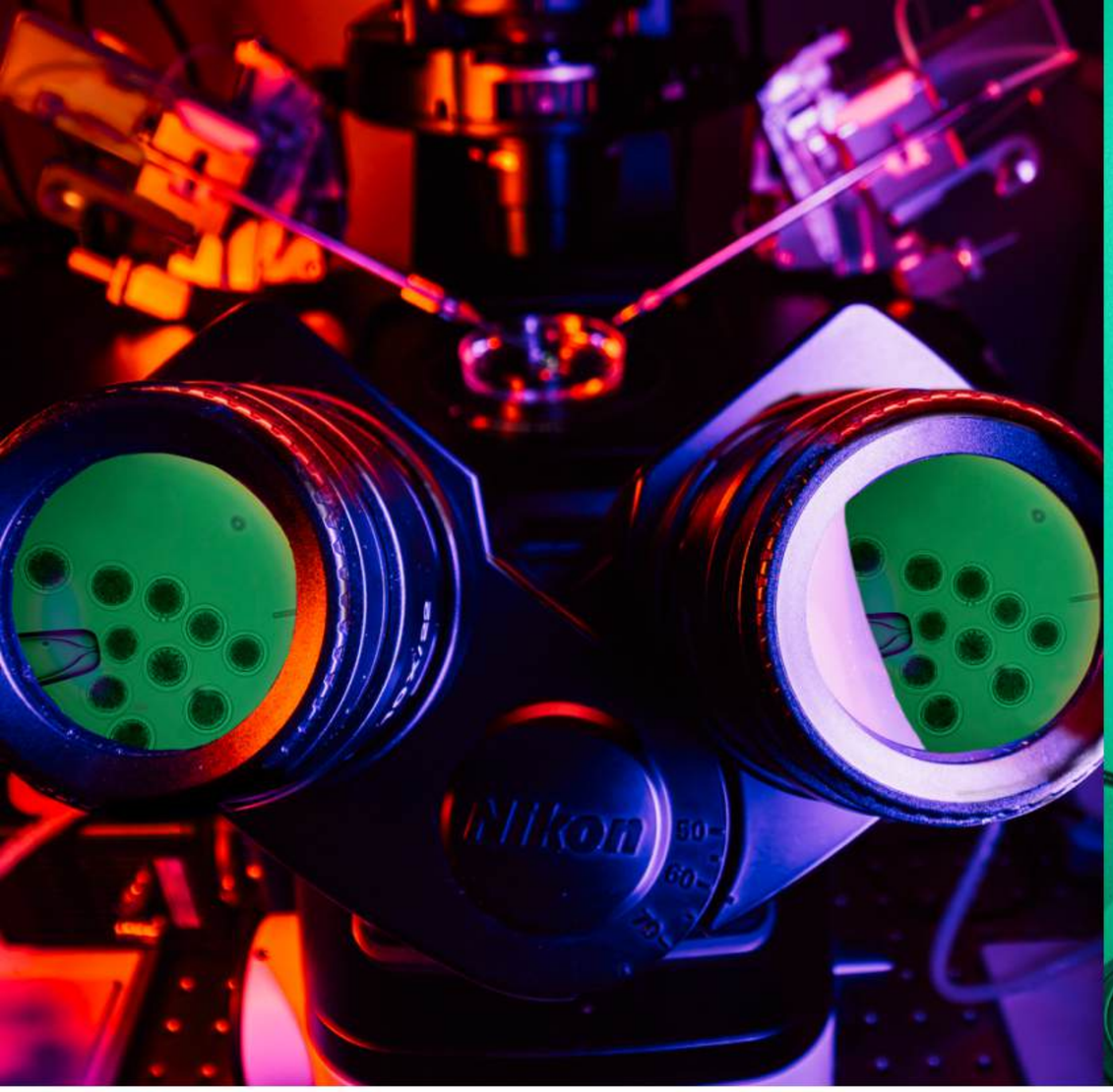
California condor
Gymnogyps californianus
● Critically Endangered

BUILDING A GLOBAL BIOVAULT

WE'RE PRESERVING THE GENETIC DIVERSITY OF OUR BIOSPHERE.

Extinction is accelerating faster than at any point in human history. For thousands of species, the world may lose the critical genetic material needed for recovery long before technology or conservation interventions can arrive. The Colossal BioVault was created to change that trajectory.

The BioVault will be the world's largest distributed biobanking initiative. In collaboration with our partners, the Colossal Foundation is building a globally distributed network designed to protect the primary materials needed to prevent extinction. We're using this next-generation system to collect, preserve, and share viable tissue samples from the planet's most imperiled species.

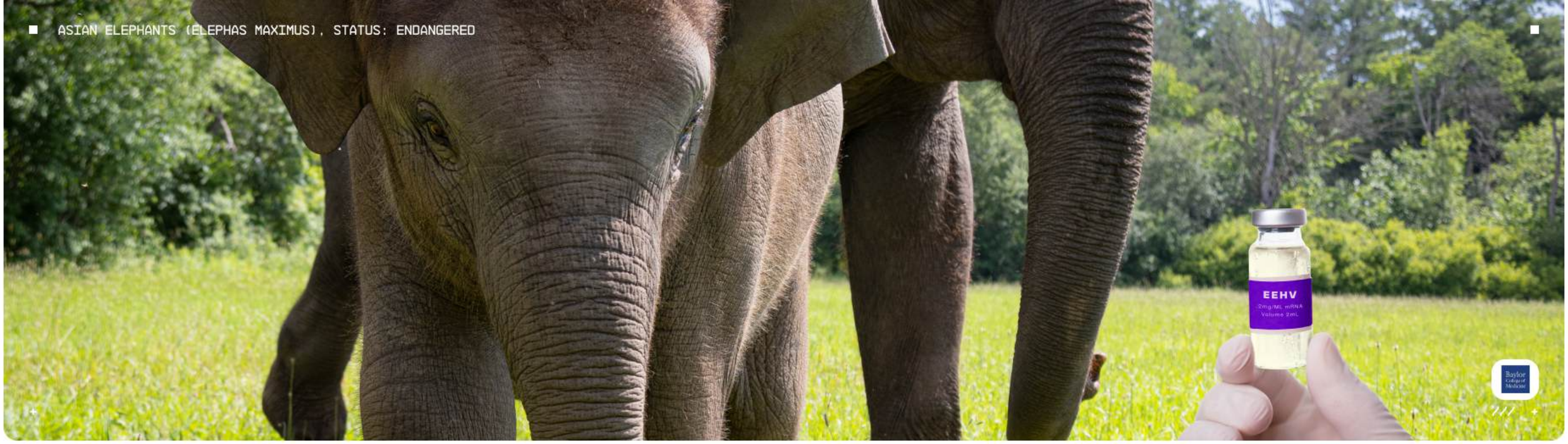


The BioVault is Colossal's commitment to **safeguard the present diversity of life, and our promise to secure a resilient future.**

Unlike traditional centralized biobanks, the BioVault is intentionally distributed, with cell lines stored inside the countries where species live. This invaluable genetic repository will support future restoration projects, fertility research and genetic rescue efforts, acting as a critical form of insurance for species survival amid the accelerating impacts of climate change and habitat loss. At the core of this effort is the Colossal 100, a priority list of the world's most endangered vertebrates selected for biobanking and genome sequencing.

CONSERVATION PROGRAM

ENGINEERED RESILIENCE



ENDING THE ELEPHANT EEHV CRISIS

//////////////////////////////////////

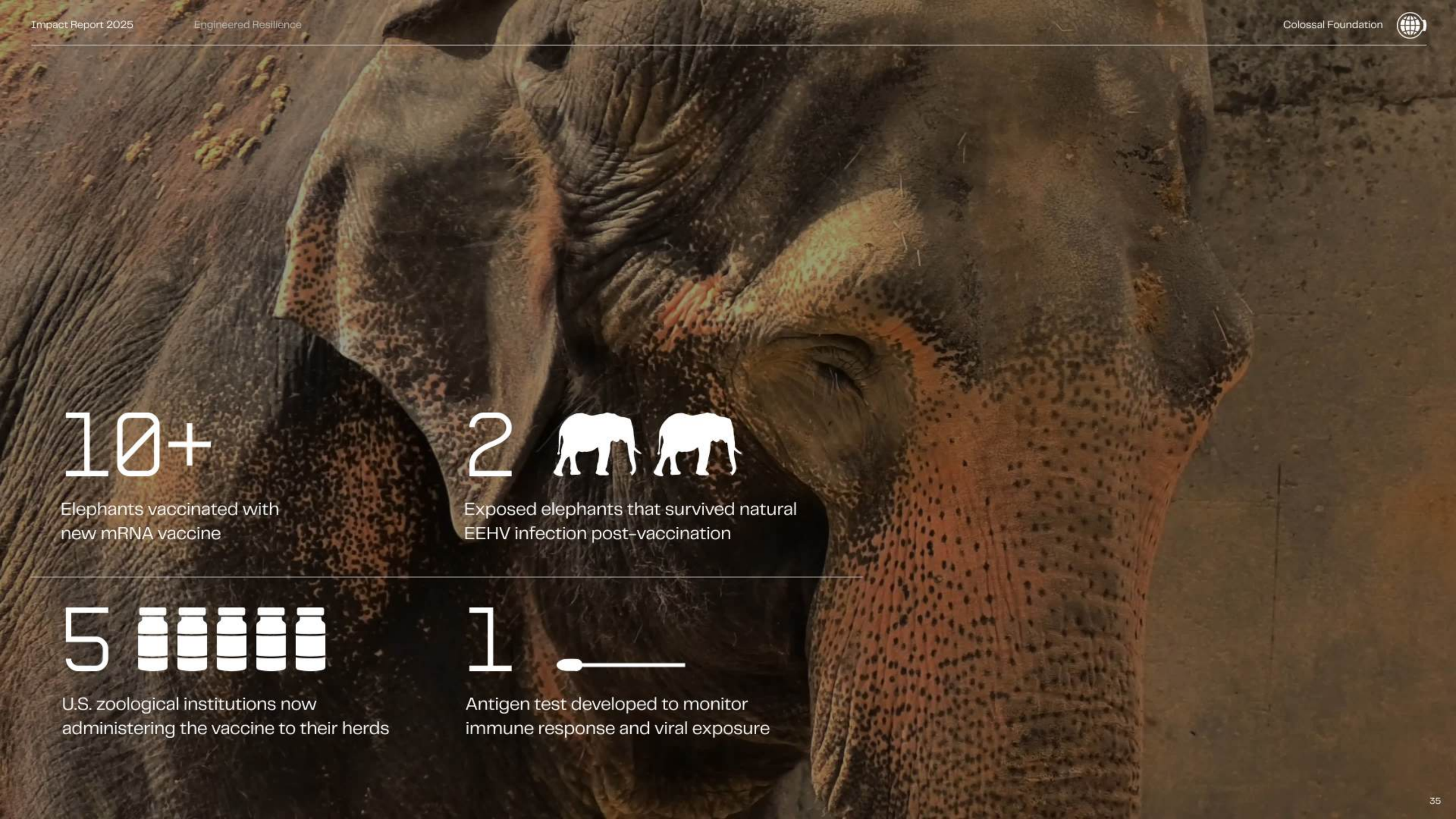
THE WORLD'S FIRST MRNA VACCINE FOR ELEPHANTS IS ALREADY SAVING LIVES.

Elephant endotheliotropic herpesvirus (EEHV) is a lethal disease, responsible for the majority of deaths among young Asian elephants in human care and a growing threat to wild populations. To fight it, the Colossal Foundation helped fund and accelerate the world's first mRNA vaccine for EEHV. We're already seeing results.

At the Cincinnati Zoo, two vaccinated young elephants, Sanjay and Kabir, were naturally exposed to the virus in spring 2025. Both showed no signs of illness and recovered fully, a highly unlikely outcome without the vaccine. This watershed moment was the first real-world evidence that this vaccine prevents severe disease and saves lives.

“I have witnessed elephants battle EEHV and have even lost a juvenile elephant that was under my care. To be able to get a vaccine into the world that can stop this senseless loss means everything to me. This is why I joined Colossal.”

Matt James
Chief Animal Officer, Colossal



10+

Elephants vaccinated with new mRNA vaccine

2

Exposed elephants that survived natural EEHV infection post-vaccination

5

U.S. zoological institutions now administering the vaccine to their herds

1

Antigen test developed to monitor immune response and viral exposure


colossal


Baylor College of Medicine

ENGINEERING TOXIN-RESISTANT QUOLLS

////////////////////////////////////

GENE EDITS WILL SOON PROTECT AUSTRALIA'S WILDLIFE FROM INVASIVE CANE TOADS.

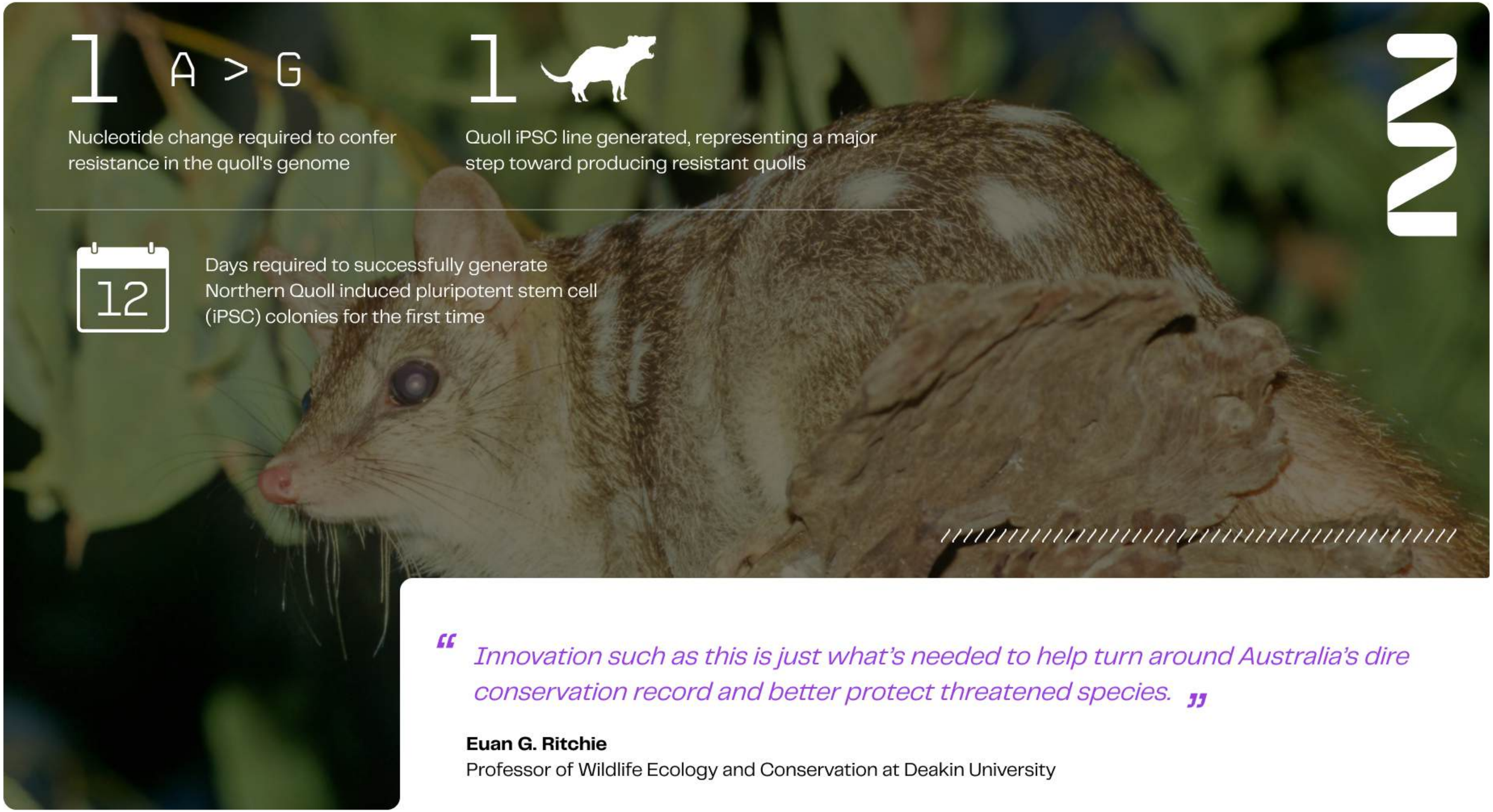
The Endangered northern quoll, a tiny marsupial native to Australia, is facing an ecological disaster due to cane toads. This invasive species was introduced to the ecosystem in 1935, and the lethal bufotoxin they secrete is decimating native predators like the northern quoll. The invasion is spreading rapidly, pushing the quoll and countless other native marsupials toward extinction.

Traditional conservation cannot stop this spread, so the Colossal Foundation and its partners are engineering a genetic solution by equipping the quoll with natural resistance to the deadly toxin.

01 INVASIVE CANE TOAD BUFOTOXIN IS FATAL TO NORTHERN QUOLLS, DRIVING THEM TOWARDS EXTINCTION

02 A SINGLE GENE EDIT INTRODUCES TOXIN RESISTANCE MUTATION (Q111R) DIRECTLY INTO NORTHERN QUOLL CELLS

03 QUOLLS WITH ENGINEERED BUFOTOXIN IMMUNITY WOULD BE ABLE TO PREY ON INVASIVE TOADS UNHARMED



1 A > G

Nucleotide change required to confer resistance in the quoll's genome

1

Quoll iPSC line generated, representing a major step toward producing resistant quolls

12

Days required to successfully generate Northern Quoll induced pluripotent stem cell (iPSC) colonies for the first time

> *"Innovation such as this is just what's needed to help turn around Australia's dire conservation record and better protect threatened species."*

Euan G. Ritchie
Professor of Wildlife Ecology and Conservation at Deakin University

SAVING AMPHIBIANS FROM THE DEADLY CHYTRID FUNGUS

////////////////////////////////////

WE'RE ENGINEERING IMMUNITY TO THE DEADLIEST WILDLIFE PANDEMIC IN HISTORY.

Chytridiomycosis is the most devastating disease threat ever recorded in vertebrates. It has driven the extinction of nearly 100 amphibian species and imperiled more than 500 others. The Colossal Foundation has committed $3 million to fund a radical solution: engineering innate genetic immunity. In a groundbreaking approach, we are looking to nature for the answer, specifically, to the unique immune system of the alpaca.

Through nanobody engineering, antimicrobial peptide screening and transgene delivery in amphibian models, we're creating the first comprehensive strategy to confer immunity against chytrid infections. The result: disease-resistant frogs capable of surviving in chytrid-positive environments.

01 CHYTRID FUNGUS ZOOSPORES COLLECTED

02 ALPACAS ARE INFECTED WITH CHYTRID FUNGUS AND PRODUCE ANTIBODIES

03 TRANSGENES EXPRESSING ANTIBODIES IN FROG SKIN

$3,000,000

Grant committed by Colossal to support this long-term rescue mission

500+

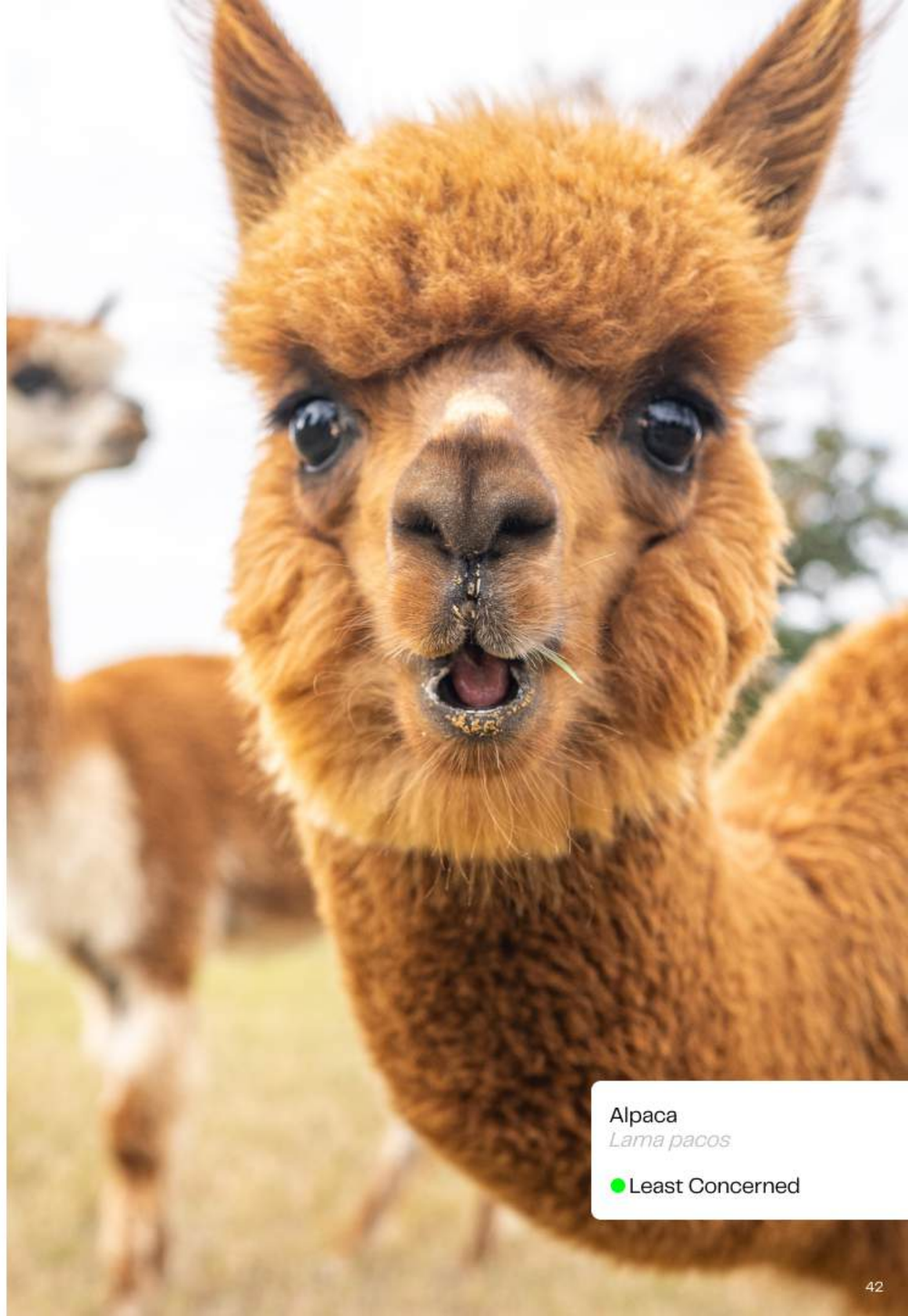
At-risk species that could benefit from this technology

1

Alpaca immunized against chytrid to generate a library of powerful "nanobodies"

NEW CANE TOAD CELL LINES

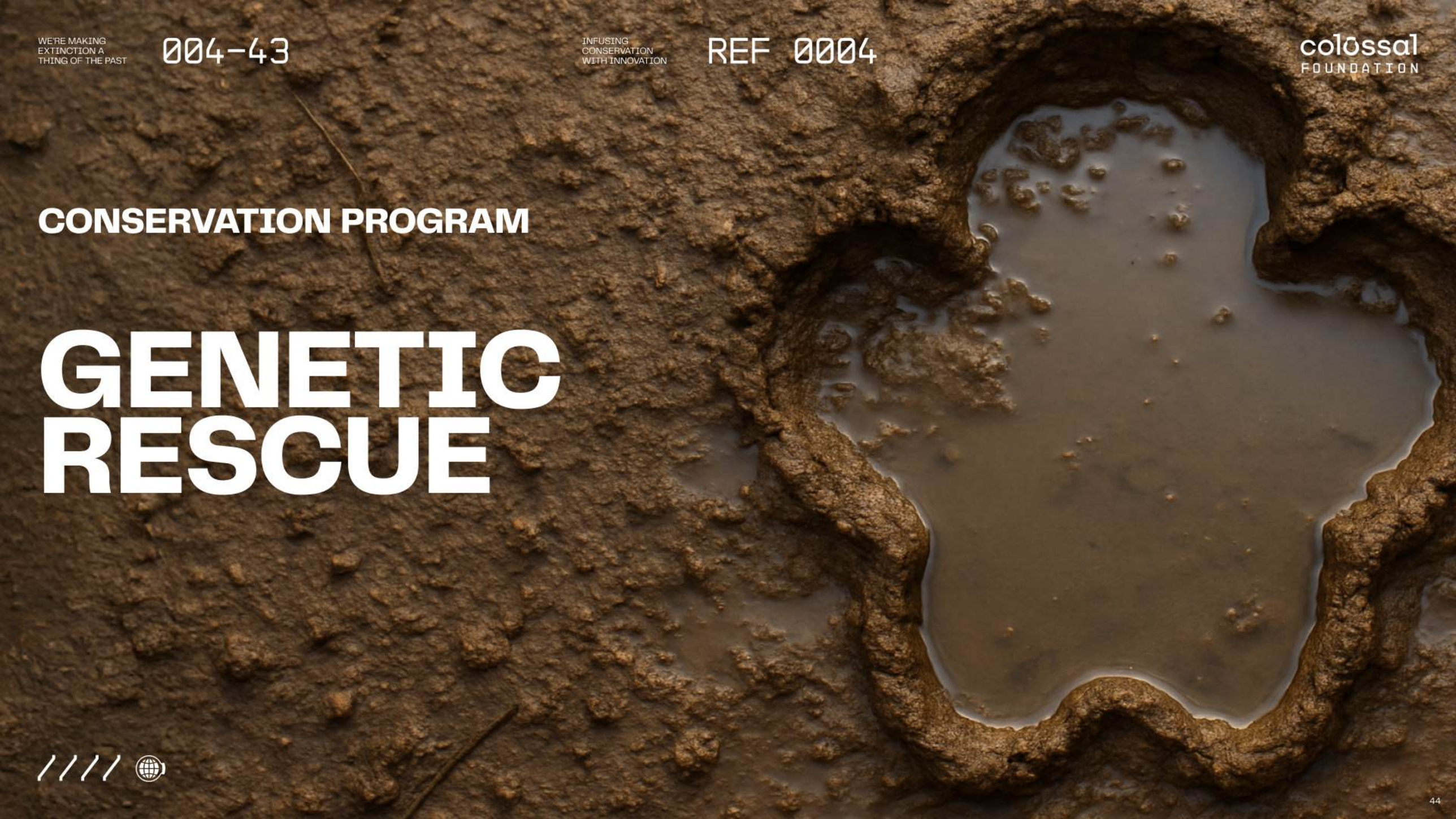
Derived for amphibian-specific expression studies



“Helping to stop the spread of chytrid isn’t optional. We have to give frogs a fighting chance and ensure they remain a vital part of our planet’s biodiversity for generations to come. This will be a game-changer for amphibian conservation.”

Dr. Andrew Pask
Chief Biology Officer, Colossal

IMAGE CREDIT: COLLECTION OF ZOOSPORIC EUFUNGI AT UNIVERSITY OF MICHIGAN (CZEUM)



CONSERVATION PROGRAM

GENETIC RESCUE

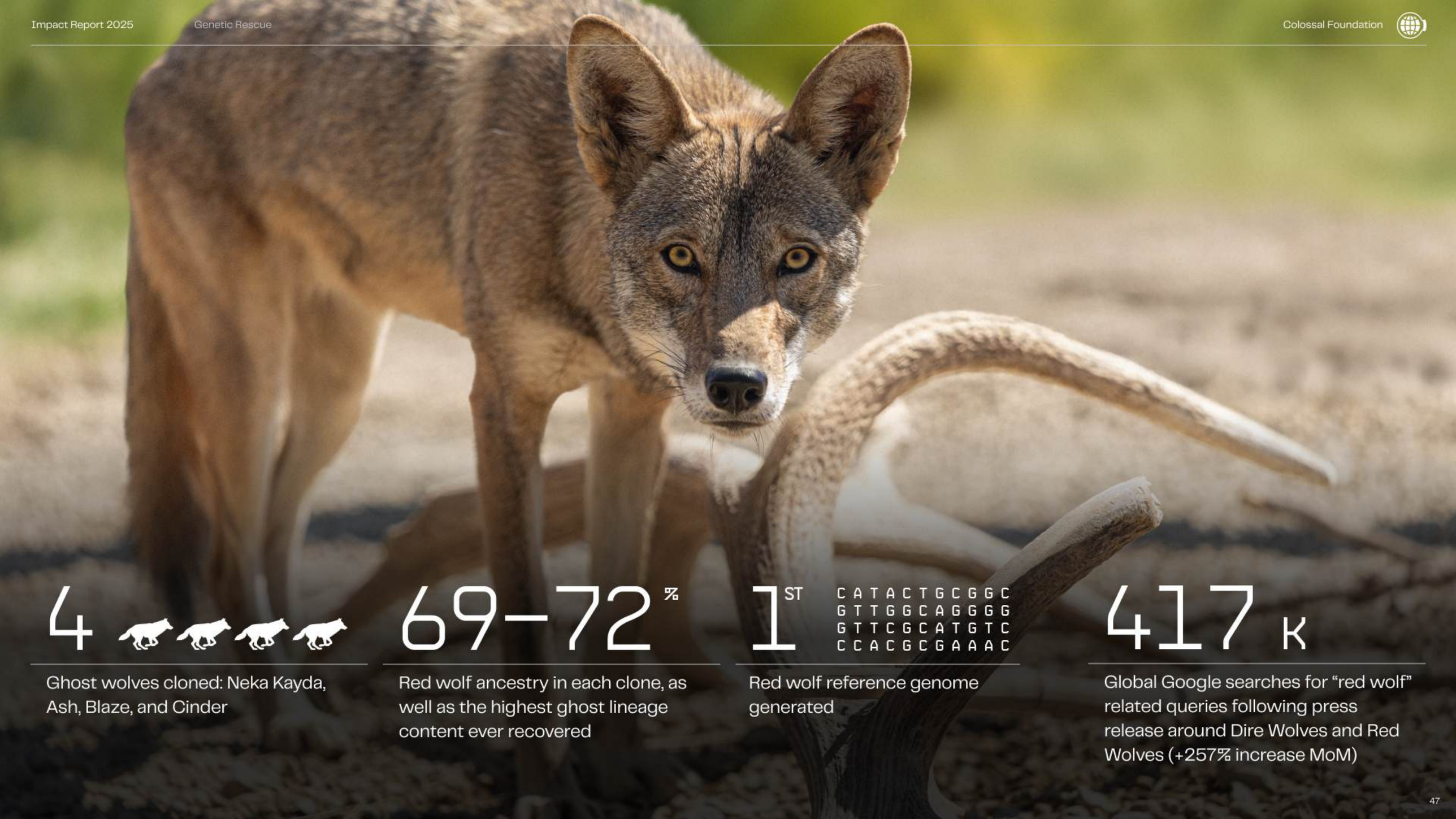
RESTORING THE RED WOLF

GENETIC RESCUE IS THE KEY TO SECURING THE RED WOLF'S FUTURE.

The American Red Wolf is the world's most endangered canid. Very few exist in the wild, and the roughly 300 under managed care are descended from just 12 individuals. This lack of genetic diversity leaves the species highly vulnerable to disease, inbreeding and extinction.

The Colossal Foundation and its partners are pioneering a new form of genetic rescue by identifying and cloning "ghost wolves" from the American Gulf Coast. These unique canids carry the precious genomic legacy of the pre-extinction red wolf, preserving vital diversity that was thought to be lost forever.

In 2025, we held a naming ceremony to honor the first cloned pup. ***Meet Neka Kayda (“Ghost Daughter”)****, named by the Karankawa Tribe of Texas and now recognized as the tribe’s totem animal.*



4

Ghost wolves cloned: Neka Kayda, Ash, Blaze, and Cinder

69–72%

Red wolf ancestry in each clone, as well as the highest ghost lineage content ever recovered

1ST

CATACTGCGGC
GTTGGCAGGGG
GTTCGCATGTC
CCACGCGAAAC

Red wolf reference genome generated

417K

Global Google searches for “red wolf” related queries following press release around Dire Wolves and Red Wolves (+257% increase MoM)

EXPANDING THE FRONTIER OF GENETIC RESCUE

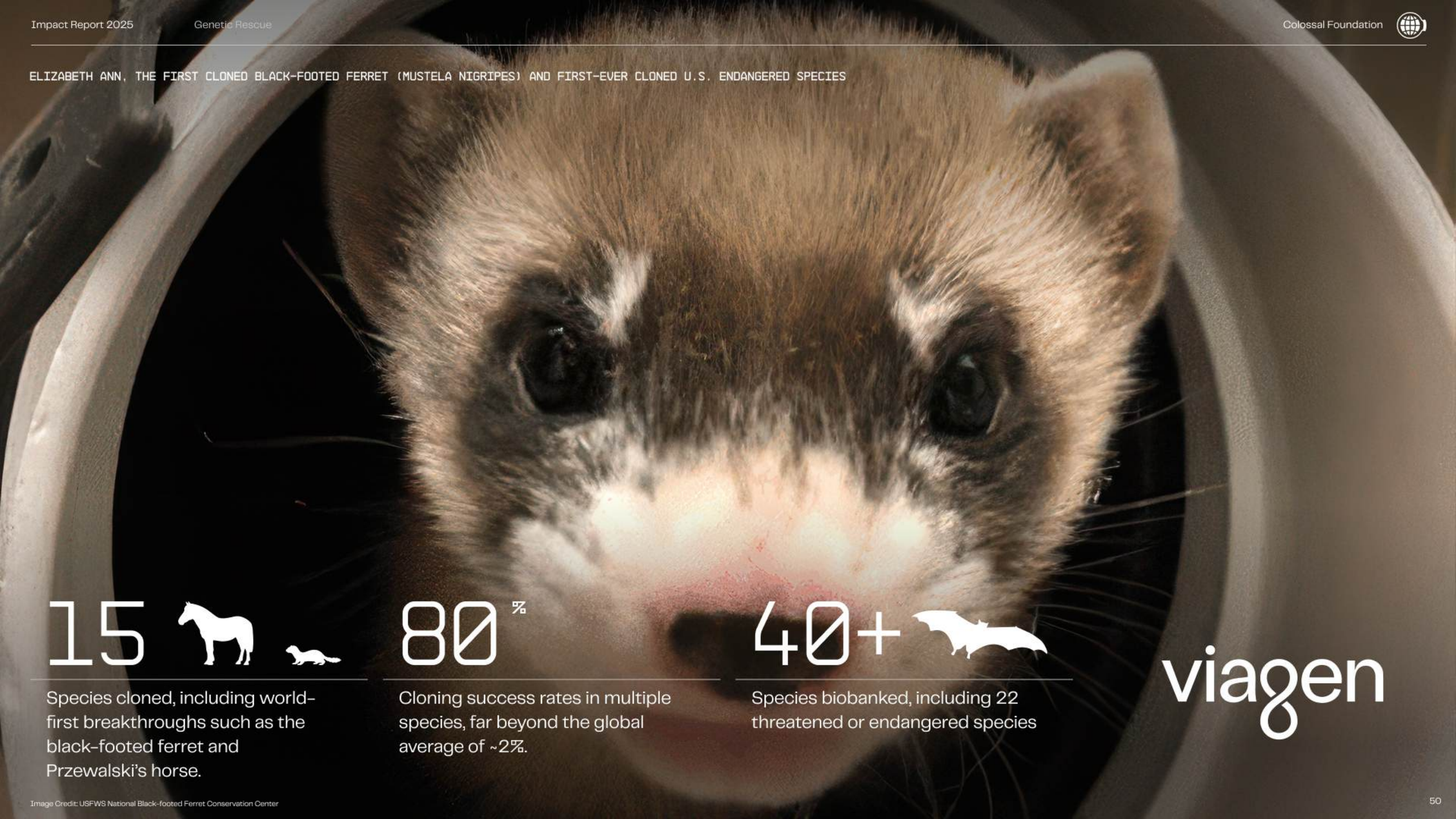
WE'RE NOW THE GLOBAL LEADER IN ENDANGERED SPECIES CLONING AND BIOBANKING.

In 2025, Colossal took one of the most consequential steps in its history: the acquisition of Viagen Pets & Equine, the world's most advanced and successful animal cloning company. This acquisition dramatically expands what conservation can achieve.

Viagen is now a primary pillar of the Colossal Foundation's genetic rescue work, supercharging our ability to preserve biodiversity and restore species on the brink. By integrating their operational power with Colossal's genomic engineering and conservation biology, the Foundation deploys the most comprehensive species restoration toolkit in the world. Together, we're bringing unprecedented capability to the future of species recovery, ensuring that genetic loss is no longer irreversible and that species with a fighting chance are given every opportunity to thrive.

Image Credit: Elizabeth Arellano Photography

ELIZABETH ANN, THE FIRST CLONED BLACK-FOOTED FERRET (MUSTELA NIGRIPES) AND FIRST-EVER CLONED U.S. ENDANGERED SPECIES



15

Species cloned, including world-first breakthroughs such as the black-footed ferret and Przewalski's horse.

80%

Cloning success rates in multiple species, far beyond the global average of ~2%.

40+

Species biobanked, including 22 threatened or endangered species

viagen

Image Credit: USFWS National Black-footed Ferret Conservation Center

"No other company comes close to what Viagen has achieved. Their unmatched expertise and cloning technology stack have become the world's standard, and their application of these critical and proprietary technologies to endangered species conservation makes them an invaluable partner in advancing our global de-extinction and species preservation mission."

Ben Lamm
Founder & CEO, Colossal

ENGINEERING RESILIENCE FOR THE WORLD'S RAREST RHINOS

The global rhino crisis is at a breaking point. The northern white rhino is functionally extinct, with only two females remaining. And the Sumatran and Javan rhinos both have fewer than 100 individuals left.

Colossal and its partners, BioRescue Consortium, IPB University, and Padua University, are deploying innovative technological interventions, including advanced assisted reproductive technologies, to save these species.

EXTREME CRISES REQUIRE UNPRECEDENTED INTERVENTIONS.

Image Credit: Ami Vitale

> *With Colossal's advanced genetic technology, we will be able to piece together the missing links of the species' genetic history.*

Dr. Thomas Hildebrandt
Project Head at BioRescue

Image Credit: Ami Vitale

3

New ETHAS (Ethical Self-Assessment) protocols designed for rhino conservation, ancient DNA, and translocation

1

Colossal-funded PhD student leading the development of these ethical frameworks

Image Credit: Ami Vitale

RESCUING THE PINK PIGEON

WE'RE USING GENOMICS TO SAVE A SPECIES ON THE BRINK.

The pink pigeon is one of conservation's greatest success stories, a species brought back from fewer than 10 individuals in the 1980s to over 400 in the wild today. But this success hides a looming crisis. The 1980s bottleneck created a new, invisible threat: a severe lack of genetic diversity leaves the entire population exposed to a single new disease.

The Colossal Foundation is supporting our partners in conducting groundbreaking research to secure the long-term survival of this beautiful, genetically fragile species. Early genome sequencing has already revealed lost variants linked to immunity and fertility, guiding future gene-editing strategies.

1,550

Pink pigeon blood samples archived, spanning between 1982–2021

9

C A T A C T G C G
G C G T T G G C A
G G G G G T T C G
C A T G T C C C A

Whole genomes sequenced from historic samples

32

Museum specimens identified for sequencing

1

Genome simulation model developed to assess benefits of genetic rescue and reintroduction

> *"By studying the genome of a recovered species that was once critically endangered, we can learn how to help other species bounce back from a population collapse."*

Professor Cock van Oosterhout
University of East Anglia

RESURRECTING THE "LOST" DRAGON

WE'RE PIONEERING ONE OF AUSTRALIA'S MOST REMARKABLE CONSERVATION COMEBACKS.

In 2023, conservationists made a discovery that sent shockwaves through the scientific community: a tiny population of the critically endangered Victorian Grassland Earless Dragon, not seen since 1969, was found. This "lost dragon" was widely believed to be extinct, so its rediscovery began a race against time.

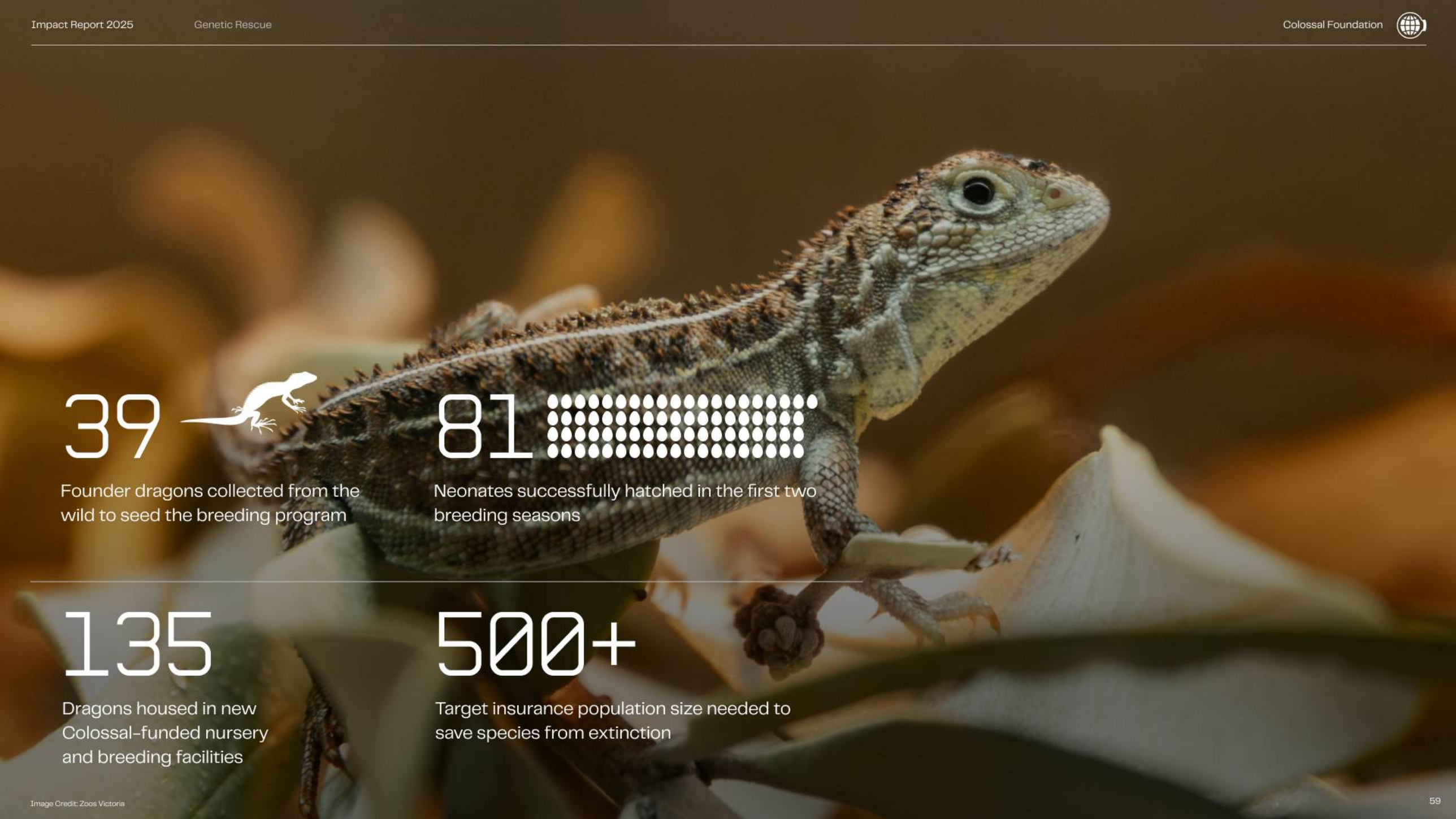
The Colossal Foundation provided immediate, essential funding to Zoos Victoria to collect the 39 animals and establish a critical conservation breeding and insurance program. This enabled the rapid retrofitting of a "VGED nursery," the purchase of custom enclosures, and a dedicated keeper role to accelerate the species' recovery. We also sequenced the dragon's genome to ensure a strong foundation for its long-term survival.

Image Credit: Zoos Victoria

> *Our partnership with Colossal will provide potential to explore and apply more novel genetic techniques for a range of species in need. It's a great example of how different organizations can collaborate to address the urgent need for species preservation and ecosystem restoration.*

Dr. Jenny Gray
CEO, Zoos Victoria

Image Credit: Zoos Victoria



39

Founder dragons collected from the wild to seed the breeding program

81

Neonates successfully hatched in the first two breeding seasons

135

Dragons housed in new Colossal-funded nursery and breeding facilities

500+

Target insurance population size needed to save species from extinction

Image Credit: Zoos Victoria

Image Credit: Zoos Victoria

ESTABLISHING THE FIRST MARSUPIAL MODEL SPECIES

WE'RE ENLISTING THE FAT-TAILED DUNNART TO CRACK THE CODE OF MARSUPIAL ASSISTED REPRODUCTION.

Unlike placental mammals, marsupial reproductive biology has long been a "black box" to science, making captive breeding and genetic rescue incredibly difficult. But the Colossal Foundation is developing the fat-tailed dunnart, known for its fast breeding cycle, unique reproductive biology, and suitability for genetic and developmental research, as the world's first marsupial model organism in the lab, while simultaneously conducting critical fieldwork to protect wild populations.

This work lays the foundation for the de-extinction of the Thylacine and the rescue of endangered relatives like the Northern Quoll.

50–60%

IVF cleavage success rate achieved, a massive breakthrough for marsupial assisted reproduction

20

Average mature oocytes yielded per female using the new superovulation protocol

28

Wild dunnarts located in a single survey in South Australia (Nov 2025), the largest recorded to date

2

Dunnart colonies established (at Colossal Australia and Colossal US)

1,000+

Dunnarts successfully reared in the U.S. colony since the founders' arrival in 2024, creating one of the largest and most genetically valuable marsupial colonies in the world

The fat-tailed dunnart is a surrogate for hope that will play an extraordinary role in marsupial conservation and de-extinction.

CONSERVATION PROGRAM

REWILDING

THE SPECIES REINTRODUCTION FUND

To win the race against extinction, we must accelerate rewilding efforts globally. The Colossal Species Reintroduction Fund is the world's first dedicated accelerator for wildlife recovery, committing at least $250,000 annually to advance every stage of rewilding, from genetic assessment and planning to release and long-term monitoring. Through both funding and technical collaboration, the Fund empowers partners worldwide to restore ecosystems, strengthen genetic diversity, and give threatened species a fighting chance to thrive again in the wild.

APPLY TO THE FUND

FIRST COHORT PARTNERS:

Turner Endangered Species Fund

IPE

Nez Perce Tribe Treaty of 1855

Việt Nature

Yambatu

Universidad Nacional de San Martín

WE'RE ACCELERATING REWILDING WORLDWIDE.

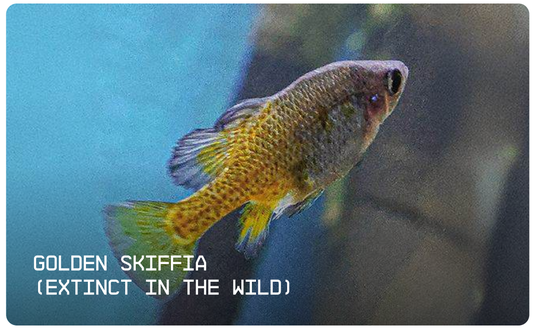
PROJECT PARTNER:

re:wild


BOLSON TORTOISE
(CRITICALLY ENDANGERED)

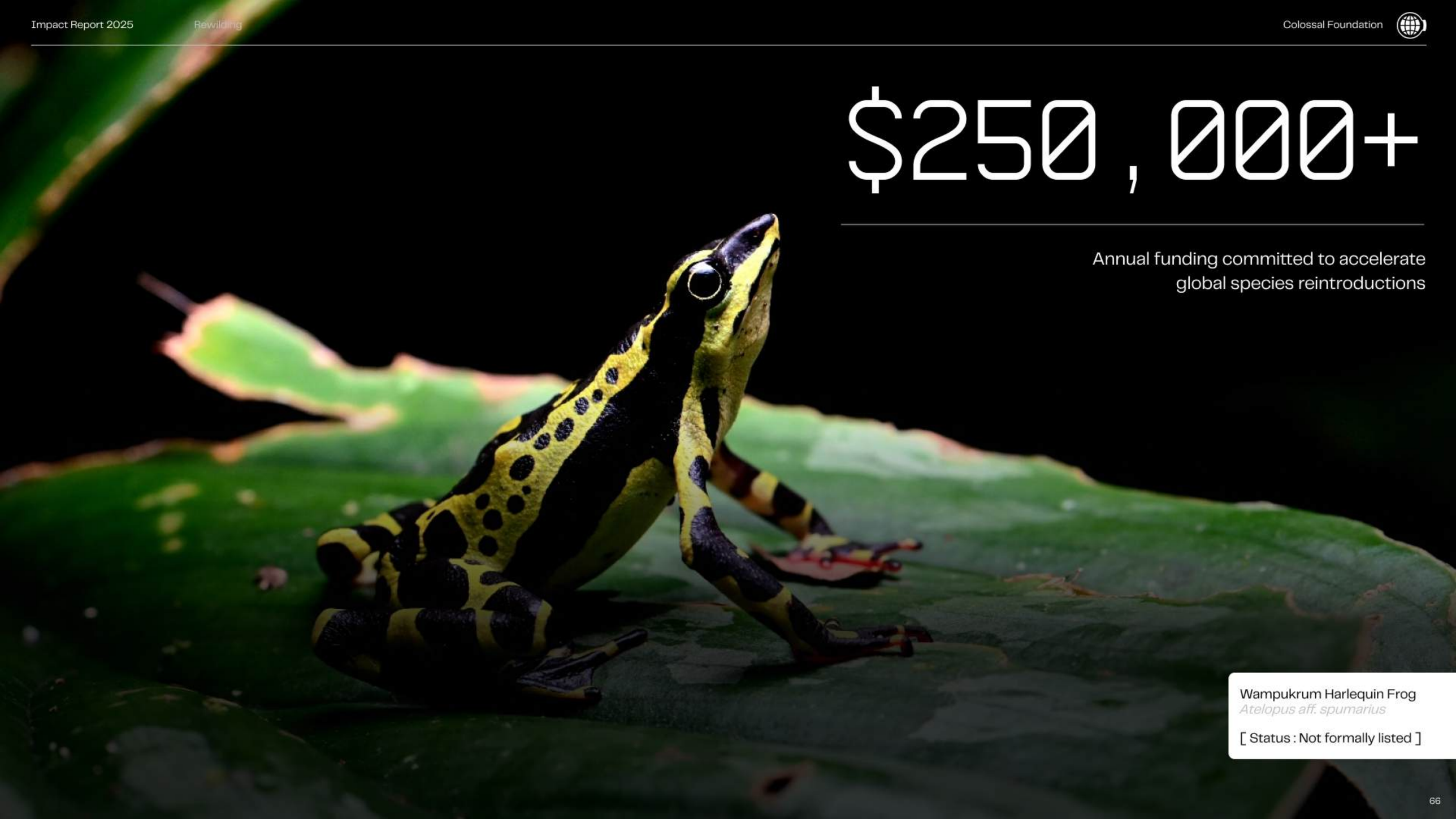

BLACK LION TAMARIN
(ENDANGERED)


CALIFORNIA CONDOR
(CRITICALLY ENDANGERED)


GOLDEN SKIFFIA
(EXTINCT IN THE WILD)


VIETNAM PHEASANT
(CRITICALLY ENDANGERED)


WAMPUKRUM HARLEQUIN FROG
(NOT FORMALLY LISTED)



$250,000+

Annual funding committed to accelerate global species reintroductions

Wampukrum Harlequin Frog
Atelopus aff. spumarius

[Status : Not formally listed]

6

Flagship species supported across six countries and ecosystems: the Bolson tortoise, Black lion tamarin, California condor, Golden skiffia, Vietnam pheasant, and Harlequin toad

40

Juvenile Bolson tortoises to be rewilded in New Mexico

6,000

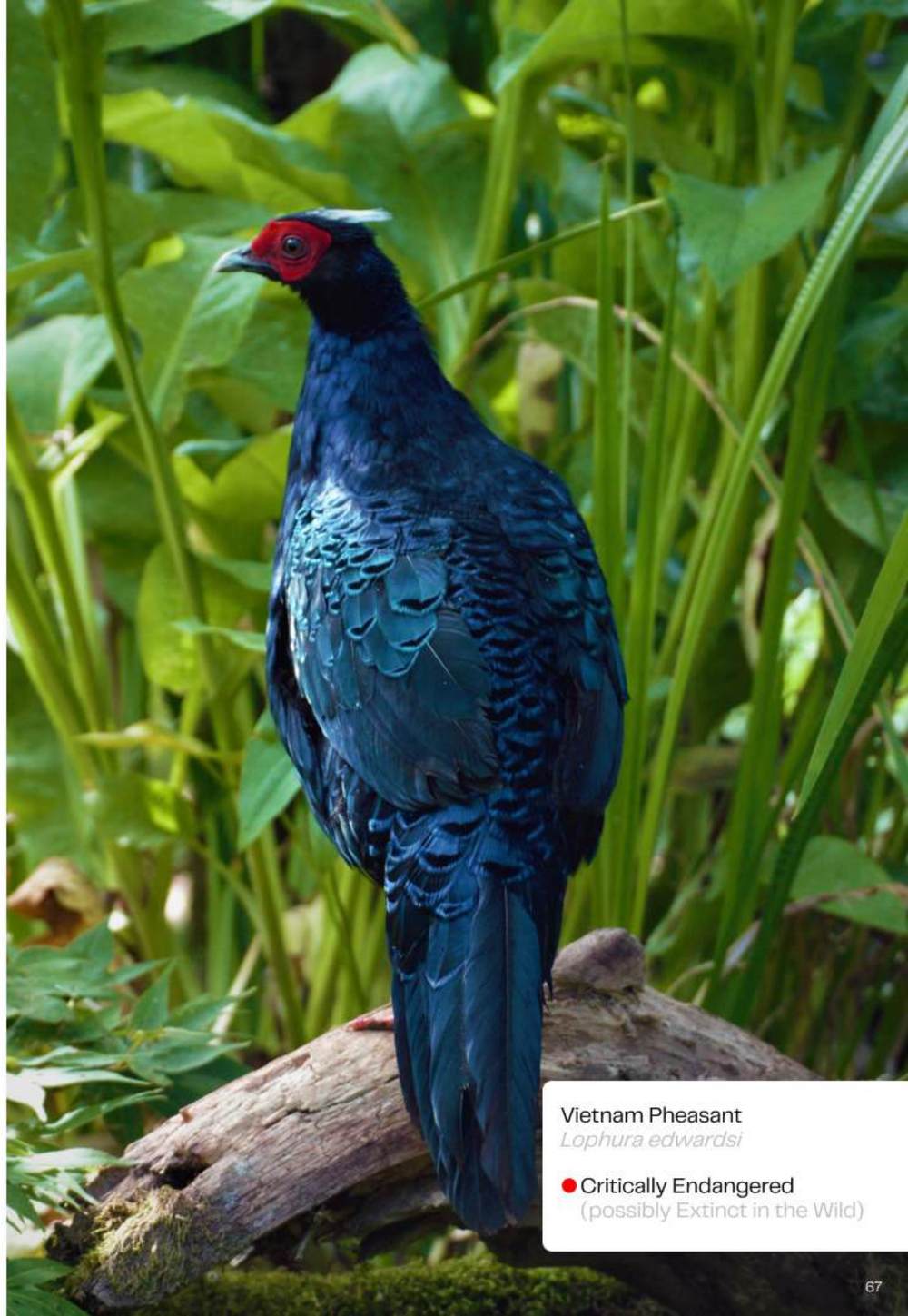
Skiffia and related fish species to be bred for river restoration and reintroduction in Mexico

800

Wampukrum harlequin toads slated for three-phase release in Ecuador

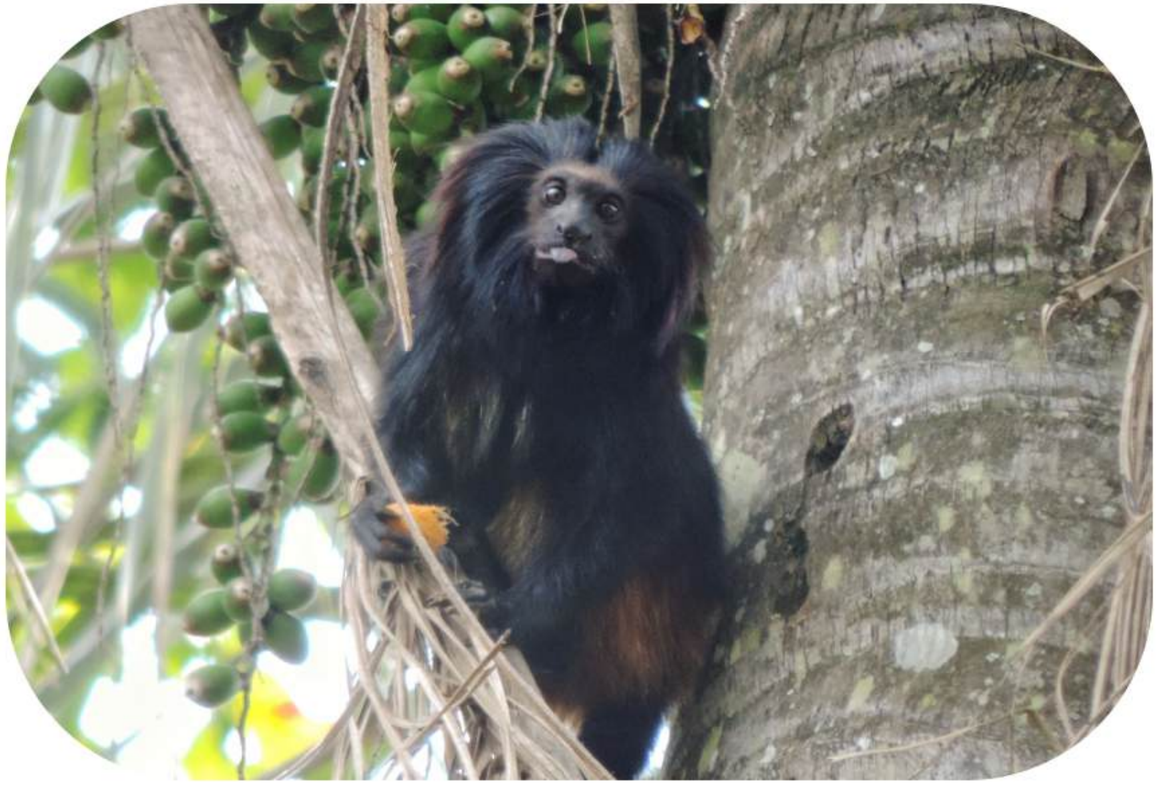
> *"Ecosystems around the world need our support to remain vibrant and resilient. Species reintroductions are critical to return functional roles to natural environments—helping species, habitats, and human communities thrive."*

Wes Sechrest
CEO & Chief Scientist, Re:Wild



Vietnam Pheasant
Lophura edwardsi

● Critically Endangered
(possibly Extinct in the Wild)

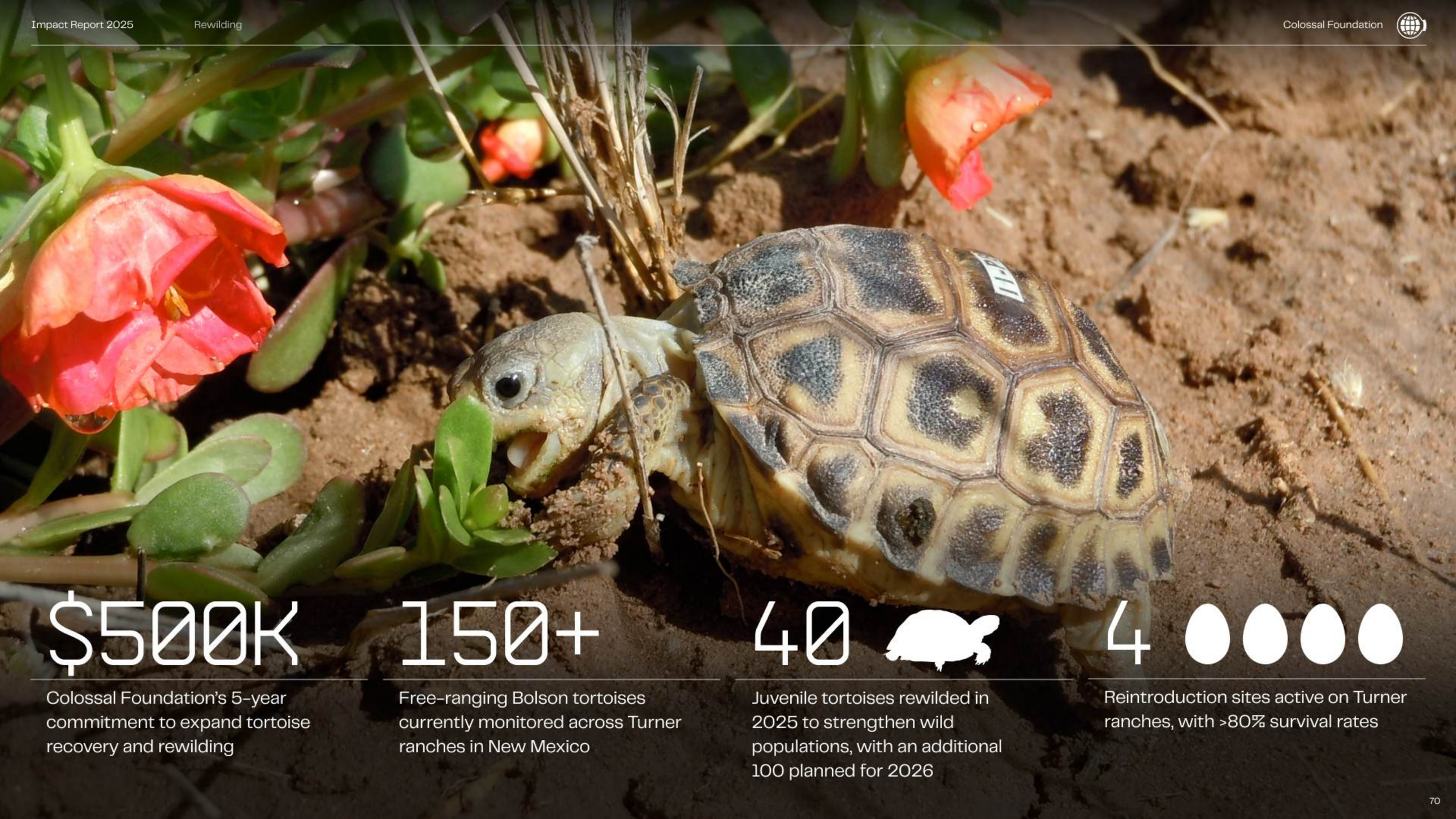


Rewilding the Bolson Tortoise

//////////////////////////////////////

WE'RE RESTORING A DESERT ICON FROM A BYGONE ERA.

Once widespread across the deserts of the American Southwest, the Bolson tortoise vanished from the U.S. more than 10,000 years ago, surviving only in northern Mexico. Today, through a landmark partnership with the Turner Endangered Species Fund, the Colossal Foundation is helping to bring the species home. We're supporting what has become North America's most successful Pleistocene rewilding effort, combining genetics, ecology and long-term monitoring to restore this keystone species to its ancient range.



$500K

Colossal Foundation's 5-year commitment to expand tortoise recovery and rewilding

150+

Free-ranging Bolson tortoises currently monitored across Turner ranches in New Mexico

40

Juvenile tortoises rewilded in 2025 to strengthen wild populations, with an additional 100 planned for 2026

4

Reintroduction sites active on Turner ranches, with >80% survival rates

> *“By returning the Bolson tortoise—la Tortuga Grande—to landscapes it last knew in the late Pleistocene, we’re proving that restoration can reach further back than the post-Columbian record.”*

Mike Phillips
Executive Director, Turner Endangered Species Fund

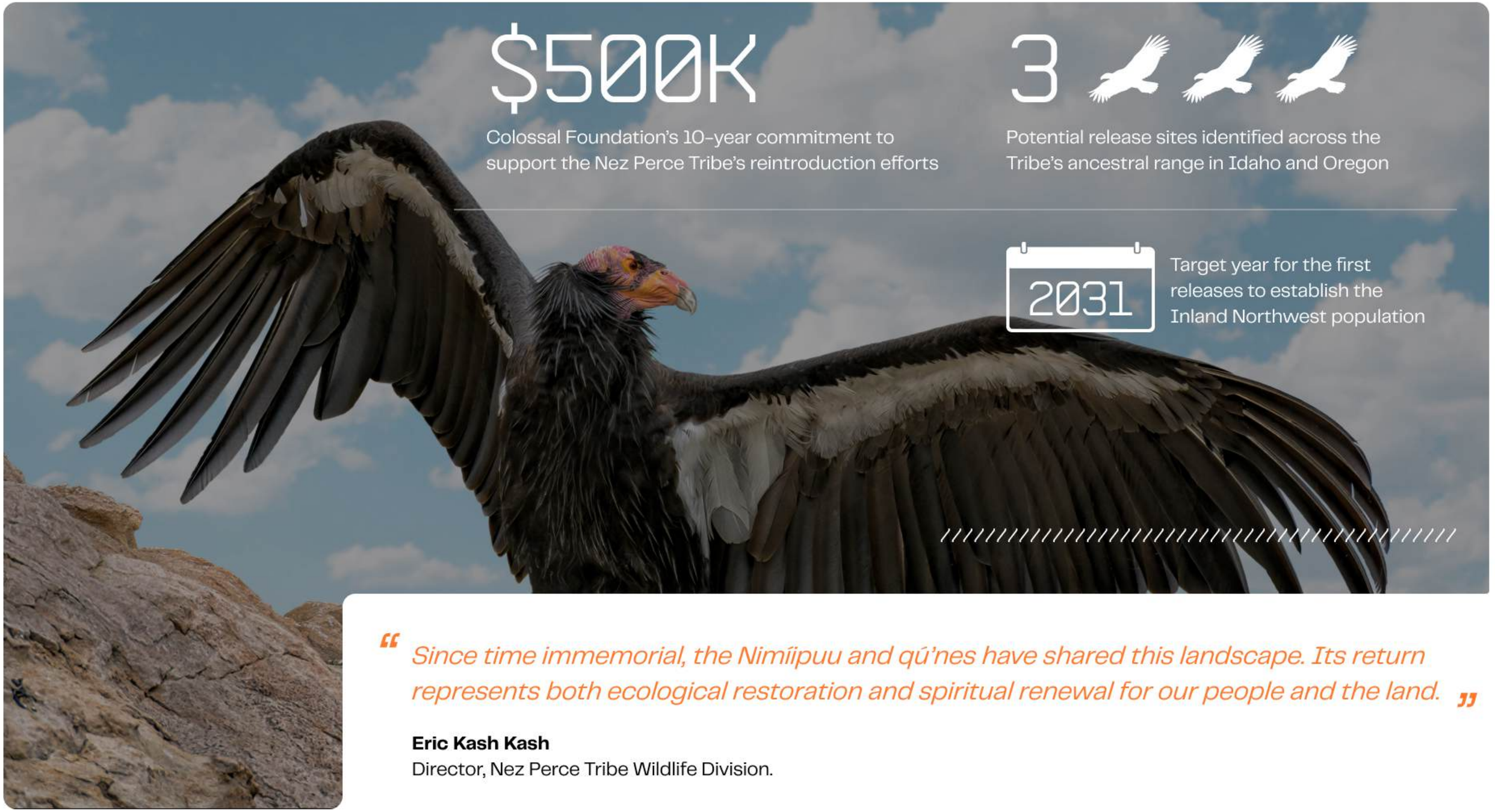

TORTOISE
CROSSING

BRINGING THE QÚ'NES HOME

WE'RE RETURNING THE SACRED CONDOR TO ITS ANCESTRAL SKIES.

The California condor is a relic of the Pleistocene era and North America's largest land bird. Historically, it soared from British Columbia to Baja California. But by 1982, habitat loss and lead poisoning had driven the population to just 22 birds, and the species vanished entirely from the Pacific Northwest.

Today, the Idaho-based Nez Perce Tribe is leading a historic effort to bring this sacred relative, known in their language as qú'nes, home. In a major commitment to indigenous-led conservation, the Colossal Foundation has partnered with the tribe's Wildlife Division to support the recovery of the condor in Hells Canyon and restore balance to the land.



$500K

Colossal Foundation's 10-year commitment to support the Nez Perce Tribe's reintroduction efforts

3

Potential release sites identified across the Tribe's ancestral range in Idaho and Oregon

2031

Target year for the first releases to establish the Inland Northwest population

> *"Since time immemorial, the Nimíipuu and qú'nes have shared this landscape. Its return represents both ecological restoration and spiritual renewal for our people and the land."*

Eric Kash Kash
Director, Nez Perce Tribe Wildlife Division.

REINTRODUCING ELEPHANT HERDS BACK TO THE WILD

WE'RE ENSURING THE SURVIVAL
OF THIS KEYSTONE SPECIES.

Botswana is home to the world's largest elephant population, but human-wildlife conflict and environmental challenges leave calves orphaned and vulnerable. Without a herd, a baby elephant cannot survive.

Elephant Havens is the only elephant orphanage in Botswana. Located on the edge of the Okavango Delta, it is a sanctuary where abandoned calves are rescued, hand-reared, and prepared for their return to the wild. The Colossal Foundation has partnered with Elephant Havens to scale their operations, bringing cutting-edge veterinary care, infrastructure, and monitoring technology to this critical mission.

28

Total orphaned elephants currently in care

3

New quarantine bomas constructed, essential for rescue intakes

10

Elephants graduated to the "Soft Release" program, living in a protected semi-wild habitat

0

Fatalities since the Colossal-funded veterinarian joined the team

> *"Every year the number increases, because more people know about Elephant Havens. With Colossal's support, we aren't just raising orphans; we are building the infrastructure to let them return to the wild."*

Debra Stevens
Co-Founder of Elephant Havens

COLOSSAL FOUNDATION

GLOBAL ADVISORS & PARTNERS

CONSERVATION IS CULTURAL

The Colossal Foundation operates with great respect for local cultures and native lands. We work closely with advisory committees to ensure that our de-extinction and conservation efforts are driven by the communities with the deepest ties to these animals.

TASMANIA THYLACINE ADVISORY COMMITTEE

Established to guide Colossal's work on the island, the Committee is composed of local leaders and provides ongoing advice on conservation priorities, community perspectives, and the long-term planning required for a future thylacine rewilding program, ensuring that all advances align with Tasmanian values and biodiversity goals.

In 2025, the Committee helped launch "De-Extincting Tassie," a four-episode educational video series designed to deepen public understanding and address common myths about the thylacine's extinction and eventual return. It also formalized a growing partnership with Bonorong Wildlife Sanctuary, one of Tasmania's leading wildlife rehabilitation centers. This collaboration includes the transfer of samples from deceased native species, joint work on marsupial care innovations, and a $75,000 contribution to help the Bonorong Wildlife Sanctuary complete its new wildlife hospital.

MAURITIUS DODO ADVISORY COMMITTEE

This board of Mauritian cultural, scientific, governmental, and community leaders was established to guide dodo de-extinction efforts and to broaden ecosystem restoration on the island. Chaired by Dr. Devina Lobine of the Mauritius Institute of Biotechnology, the Committee meets quarterly to provide input on conservation strategy, community needs and the design of a safe, culturally grounded dodo rewilding program, including habitat restoration and coexistence with existing native species.

COLOSSAL INDIGENOUS COUNCIL

This North America–focused advisory body ensures that Indigenous-led conservation, de-extinction, rewilding, and rematriation priorities are built into Colossal's strategy from the outset. Co-led by Jason Baldes of the Wind River Tribal Buffalo Initiative and Cristina Mormorunni of INDIGENOUS LED, the Council brings together leaders from nations and organizations including the Nez Perce Tribe, MHA Nation, InterTribal Buffalo Council, Karankawa Tribe of Texas and others. By merging traditional ecological knowledge with Colossal's disruptive technologies, the Council helps to ensure that our work advances biodiversity while respecting sovereignty and Indigenous values, and strengthens the long-term stewardship of ancestral land.

THE COLOSSAL SUMMIT

In July 2025, the Colossal Foundation brought together leading scientists, Indigenous knowledge holders, conservation innovators and global partners for the inaugural Colossal Summit. Hosted at Colossal's new Dallas headquarters, the two-day gathering was dedicated to accelerating the future of species recovery and ecological restoration and served as a nexus for collaboration, storytelling and breakthrough ideas.

Across keynotes, deep-dive sessions, technology showcases and community dialogues, attendees explored new frontiers in biotech-enabled conservation, from AI-powered wildlife monitoring and genetic rescue to rewilding strategy. The Summit also catalyzed the next year of Colossal's work by strengthening existing partnerships, sparking new collaborations and setting a unified vision for how cutting-edge science can work together to protect life on Earth.

CONSERVATION ADVISORS

Great minds don't always think alike—and that's a good thing. Our advisers are a diverse group, comprised of the sharpest and most experienced minds in conversation today. They play an important role in guiding our efforts, as Colossal aims to restore delicate ecosystems back to healthier, more planet-friendly states. We are forever grateful for their leadership and advisement.


Aurelia Skipwith Giacometto


Barney Long, Ph.D.


Charlie Gray


Cristina Mormorunni


Dan Flores, Ph.D.


Dennis Schmitt, Ph.D.


Doug Vincent-Lang


Forrest Galante


Iain Douglas Hamilton, Ph.D., CBE
(In memoriam)


Ivan Carter


Jason Baldes


Joanna Lambert, Ph.D.


John Lukas


Linda Penfold, Ph.D.


Mead Treadwell


Mike Kreger, Ph.D.


Mike Phillips


Mike Sweeney


Peter Knights


Ralph Chami, Ph.D


Rick McIntyre


Sean Gerrity


Steven Rinella


Vikash Tatayah, Ph.D.


Virginia Riddle Pearson


Wells Howe

CONSERVATION PARTNERS

01 / 03

This job is too big to face alone. The Colossal Foundation puts its world-first de-extinction technology and biotech tools into the hands of people on the front lines of biodiversity loss. We're proud of the company we keep.

34 NONPROFIT ORGANIZATIONS

American Wolf Foundation
Aussie Ark
AZA SAFE: American Bison/Buffalo
AZA SAFE: Asian Elephant
BioRescue
BirdLife International
Bonorong Wildlife Sanctuary
Centro Jambatu
Conservation Nation
Elephant Havens
Grizzly Systems, Inc.
Gulf Coast Canine Project
Global Rewilding Alliance
Instituto de Pesquisas Ecológicas (IPE)
International Elephant Foundation
International Wildlife Coexistence Network
IUCN SSC Asian Elephant SG
IUCN SSC Pigeon and Dove SG
Mauritian Wildlife Foundation
Pronatura Noroeste
Re:wild
Samoa Conservation Society
Save The Elephants
SEZARC
Turner Endangered Species Fund
Untamed Planet
Vertebrate Genome Project
Viet Nature
WildArk
World Elephant Day
Wolf Connection
Yellowstone Forever
Zoological Society of London
Zoos Victoria

CONSERVATION PARTNERS

02 / 03

06 TRIBAL PARTNERS

INDIGENOUS LED
Karankawa Tribe of Texas
Ngāi Tahu Research Centre
MHA Nation
Nez Perce Tribe
Wind River Tribal Buffalo Initiative

CONSERVATION PARTNERS

03 / 03

18 ACADEMIC PARTNERS

Baylor College of Medicine
Cornell University
Harvard University
IPB University
McMaster University
Rockefeller University
Rowan University
Stockholm University
University of Alaska Fairbanks
University of California Santa Cruz
University of Copenhagen
University of Connecticut
University of East Anglia
University of Melbourne
Universidad Michoacana de San Nicolás de Hidalgo
University of Padua
University of Potsdam

WE'RE JUST GETTING STARTED

The scale of the work ahead is enormous, but so is our capacity to meet it. This past year was one of scientific progress and organizational milestones, and our commitment to this work reflects our deep belief that biodiversity is the key to a healthier planet.

The Colossal Foundation's story is still being written, and its next chapter will be defined by the collective courage to move fast, innovate and continue pushing beyond the boundaries of conventional conservation. Together with our partners, we can ensure a better future for life on Earth.

LEARN MORE