

Mandai Nature Impact Report
2024/2025



Protecting Nature, Empowering Action

Building a Healthier Planet
for Every Generation

OUR YEAR IN PHOTOS



1 The Conservation Agency for East Nusa Tenggara field team observes Rote snake-necked turtles in a soft-release enclosure, in preparation for a successful reintroduction into the wild. Wildlife Conservation Society – Indonesia Program, along with the Ministry of Forestry's Conservation Agency for East Nusa Tenggara and the local government, are part of a collaborative conservation programme working to repopulate the Rote snake-necked turtle in the wild. Eight turtles have already been trial-released into their natural habitat on Rote Island.

2 Dr Andie Ang at the 9th Asian Primate Symposium, where she presented the Asian Langurs Conservation Plan – a crucial step forward in protecting primates across Asia!

3 To help in the monitoring as well as supporting wild populations of Cambodia's critically endangered red-headed vulture, NatureLife Cambodia sets up mobile feeding sites, known as "vulture restaurants", to provide safe, reliable food in the wild.

4 At the Southeast Asia Zoos and Aquariums Association (SEAZA) Conference in Taipei, Roopali Raghavan showcases collaboration opportunities for the regional zoo community.

5 Safe at last, a rescued moon bear cub playfully explores its outdoor nursery at the Luang Prabang Wildlife Sanctuary in Lao PDR, run by Free the Bears.

6 Robin Hu, Chairman, Mandai Nature joins partners, government and community members in the release of southern river terrapins, marking a hopeful step toward their return to the wild.

7 Mandai Nature and Mandai Wildlife Group have the honour of hosting President Tharmar Shanmugaratnam, Patron of Mandai Nature, and First Lady Jane Ittogi at Bird Paradise.

8 Upstream of Cambodia's Anlung Pring Protected Area, farmers grow sustainable crops to improve livelihoods, reduce chemical fertiliser use, and support the restoration of wetlands and native biodiversity like the sarus crane.

9 Dr. Charlene Yeong joins other panellists from Our Wild Neighbours at the Singapore Nature Film Festival to discuss human-wildlife coexistence.

10 Ting Wai Kit representing United for Wildlife Southeast Asia at the first Wildlife Week in Cape Town, South Africa – where global leaders gathered to discuss solutions around wildlife crime.

11 In Central Java, Indonesia, farmers process sustainably-grown Owa coffee beans as part of SwaraOwa's agroforestry efforts to protect the endangered Javan gibbon. The coffee is now proudly certified Wildlife Friendly™ by the Wildlife Friendly Enterprise Network.

12 Young conservationists get hands-on experience at the Lao Youth on a Mission for Nature Conservation, a training programme led by our conservation partner Association Anoulak to inspire the next generation of environmental protectors.

Photos: Mandai Wildlife Group, Association Anoulak and EconoxLaos, Katala Foundation Inc, Balai Besar KSDA Nusa Tenggara Timur (Conservation Agency), Indonesian Ministry of Forestry, NatureLife Cambodia, Free the Bears, Our Wild Neighbours, Enric Catala/WWF, SwaraOwa, Wildlife Conservation Society (Cambodia)

About Mandai Nature

OUR PURPOSE

A sustainable world where wildlife and people thrive together in healthy ecosystems

OUR VISION

Avert extinction of the most threatened species in Asia, especially in Southeast Asia

OUR MISSION

Develop and deliver wildlife conservation programmes at scale

Mandai Nature is a non-profit organisation dedicated to advancing biodiversity conservation in Asia, with a focus on averting species extinction in Southeast Asia. We drive impact by delivering conservation programmes at scale with partners, and by convening partnerships and alliances to achieve critical conservation outcomes.

Mandai Nature is the conservation arm of Mandai Wildlife Group, which manages the Mandai Wildlife Reserve – a wildlife and nature destination in Singapore home to Singapore Zoo, Night Safari, Bird Paradise, River Wonders, and Rainforest Wild Asia and other nature-themed experiences.

We apply holistic conservation approaches, working closely with the Group to achieve greater outcomes for species under its care and their counterparts in the wild.

Mandai Nature hosts the IUCN SSC Asian Species Action Partnership (ASAP) secretariat and the IUCN SSC Conservation Planning Specialist Group (CPSG) Southeast Asia Resource Centre. In 2022, we established the IUCN SSC Centre for Species Survival: Southeast Asia (CSS SEA), in collaboration with the IUCN Species Survival Commission (SSC).



Watch our brand video

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Chairman's
Message

Robin Hu

Chairman, Mandai Nature
Advisor Senior Director, Temasek

We are living through a critical turning point for nature. Species are disappearing faster than ever, and ecosystems that support life, including ours, are under growing pressure. This is no longer a distant problem – it is happening now, compounded by gaps in funding, resources, and local capacity.

But amid this reality, progress is possible when people unite with a shared purpose.

A powerful example is our decade-long partnership with Wildlife Conservation Society (Cambodia). Together with the Cambodian Fisheries Administration and local communities, they work to recover the critically endangered southern river terrapin. Once devastated by habitat loss and poaching, this species now shows signs of hope.

In August last year, I visited Cambodia with the Mandai Nature team to witness the impact of sustained conservation. We marked the opening of new breeding ponds at the Koh Kong Reptile Conservation Centre, a key site for *ex situ* conservation, and participated in the soft release of 20 southern river terrapins into the Sre Ambel River. The pride and dedication



Dr. Sonja Luz (left) and Robin Hu (right) at the Koh Kong Reptile Conservation Centre in Cambodia, marking the opening of newly constructed breeding ponds at the head-starting facility.

of the local teams – many with years of experience in these river systems – were palpable. Thanks to their commitment, over 200 terrapins have been released into the wild, and the breeding programme is steadily progressing.

Conservation is not just about protecting species – it's about strengthening communities and building durable solutions. This spirit of collaboration also shaped the Asian Langurs Conservation Action Plan, the first coordinated strategy for 20 langur populations across Southeast Asia. Its development reflects what's possible when knowledge and trust are shared openly, guiding research, habitat protection, and partnerships.

Yet even the best plans need lasting support. Despite Southeast Asia's extraordinary biodiversity, conservation funding continues to lag and global pressures are making biodiversity financing harder. That's why Mandai Nature is committed to this region, scaling support where it's needed most – catalysing

partnerships, fostering local philanthropy, and strengthening public-sector collaboration to protect our natural heritage.

Our approach is long-term and intentional. We invest not only in critical work now, but also in the people and science that will sustain it into the future. This means building skills to empower the next generation of conservation leaders and advancing science that guides effective action on the ground. Conservation impact takes time, strong partnerships, and dedicated people.

This work is not easy. It's not fast. But it matters. We're in it for the long run, with our partners and the communities every step of the way.

To strengthen our governance in this journey, we warmly welcome Jean Chia, Global Chief Investment Officer at Bank of Singapore, to our Board. Her expertise will be invaluable as we continue to build momentum and drive lasting impact.

CEO's
Message

Dr Sonja Luz

CEO, Mandai Nature

The year 2025 marks an important milestone for Mandai Nature, as we celebrate five years since our establishment. It's been a journey defined by growth, collaboration, and above all, impact. But this past year stands apart – not just for what we achieved, but for how we paused to reflect, recalibrate, and set bold new ambitions for the road ahead.

Recognising the urgency and complexity of the biodiversity crisis across Southeast Asia, we began developing a refreshed five-year roadmap. While still in progress, our direction is clear. We are focused on two strategic priorities: empowering people to become conservation leaders and accelerating efforts to protect the region's most threatened species and habitats.

This strategy doesn't represent a shift in direction, but rather a deepening of our existing work. The priorities we've now formalised were already reflected in our programmes and partnerships. That continuity gives us confidence. The roadmap brings greater focus and coherence to what we know is working, underpinned by an evidence-based approach, rooted in measurable outcomes and scalable solutions.

One area we're excited to expand is youth leadership. Across Southeast Asia, a new generation of conservationists is stepping up with fresh ideas and determination. Mandai Nature is committed to helping them grow their expertise and amplify their impact.

A good example is the launch of the CITES Global Youth Network (CGYN) in Singapore. This platform empowers young conservationists to address illegal wildlife trade and lead change in their communities. Mandai Nature has played a critical behind-the-scenes role, supporting the network with mentorship, guidance, and resources. Another highlight saw our Youth Programme Coordinator represent Mandai Nature and United for Wildlife at the inaugural Wildlife Week in Cape Town, South Africa. These opportunities give emerging leaders the exposure, networks, and confidence to shape the future of conservation.

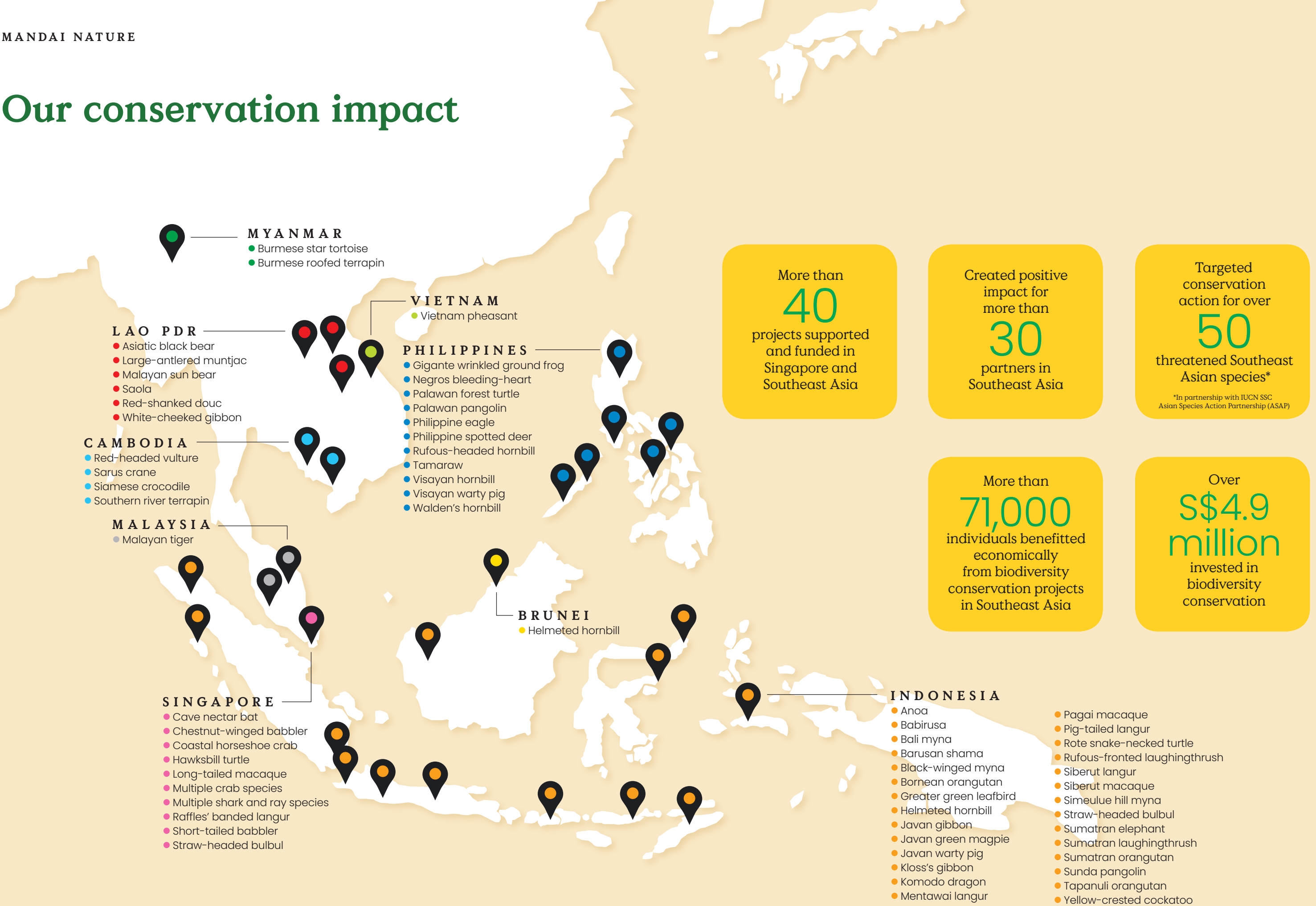
In our species work, a standout milestone was the successful repatriation of 10 critically endangered Negros bleeding-heart pigeons back to the Philippines. Bred through a conservation programme at Mandai Wildlife Group's Bird Paradise in Singapore, their return highlights how our close partnership with the Group

bridges the gap between breeding efforts and field conservation. This integrated approach strengthens both *in situ* and *ex situ* efforts, enabling greater impact. We're also deeply grateful to our field partner, Talarak Foundation, and to the local governments in Singapore and the Philippines, whose shared commitment made this possible.

The next five years will demand more of all of us – more science-based innovation, more partnership, and more courage. We will deepen our investment on building capacity, scaling up regional collaborations, and nature-based solutions that benefit both wildlife and communities.

As we look to the future, our focus is clear and our commitment stronger than ever. By backing people, protecting species, and strengthening the systems around them through science-driven approaches, we're laying the groundwork for meaningful conservation outcomes. The next five years will be about doing more of what works and doing it together.

Our conservation impact



For the full list of conservation projects supported by Mandai Nature, please refer to the Annex on Page 58.

Our strategic areas of work

Mandai Nature’s five-year (2025 – 2030) strategic workplan outlines two broad goals that will guide our existing and future programmes creating meaningful impact across three geographical locations:

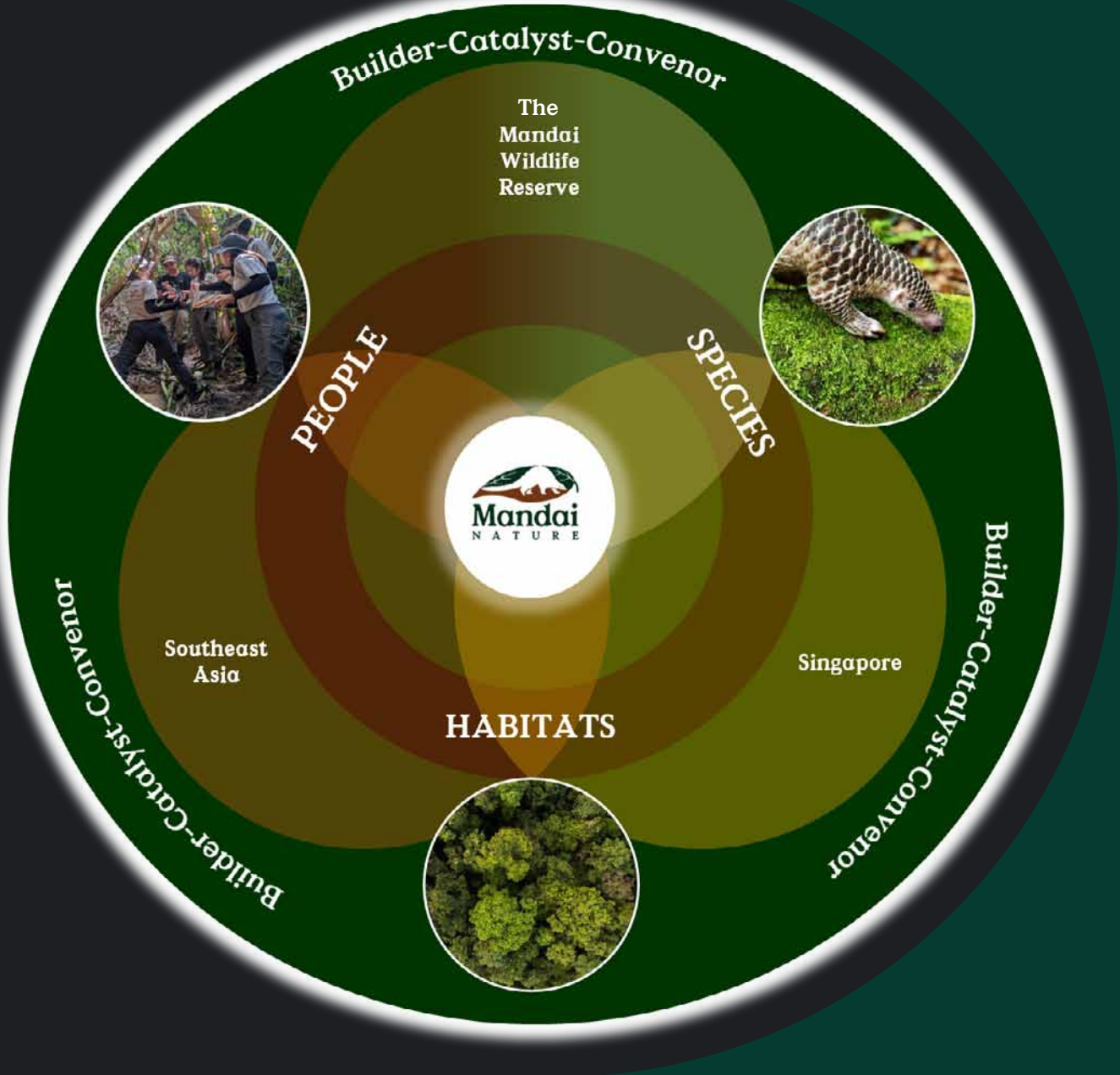
- The Mandai Wildlife Reserve
- Singapore
- Southeast Asia

1
Inspire and empower people to safeguard our planet

With the Mandai Wildlife Reserve as a research and training hub, we cultivate conservation talent, develop capacity, build knowledge products and tools to save species and protect biodiversity.

2
Conserve threatened species and their habitats with a focus in Southeast Asia

We Assess, Plan and Act for species conservation activities through grants, science, expertise and partnerships.



A Sunda colugo is shown clinging to a tree trunk in a forest. The colugo has a greyish-brown body with a lighter, mottled pattern on its back and a distinctive white ring around each eye. It is looking towards the camera with a curious expression. The background is a lush green forest with various leaves and branches.

By day, wild Sunda colugos can be spotted clinging to tree trunks – so still and camouflaged they can be overlooked. These elusive mammals are a common yet hidden presence around the Mandai Wildlife Reserve. Discover what makes them unique on page 17.

Photo: Mandai Wildlife Group

The Mandai Wildlife Reserve

Mandai Nature, the conservation arm of Mandai Wildlife Group, works closely with the Group to protect wild biodiversity within the 126-hectare precinct it manages. Together, they also integrate *in situ* conservation with *ex situ* breeding and research to strengthen conservation outcomes locally and beyond.

More than

117

species of herpetofauna, birds and butterflies recorded during surveys in the Mandai Wildlife Reserve, expanding our understanding of the area's rich biodiversity

24

research papers published on animal welfare, conservation and wildlife outreach, boosting knowledge for more effective conservation strategies

1,146

rescued wildlife admitted to Mandai Wildlife Group's Wildlife Healthcare and Research Centre, receiving vital care and support on their journey to recovery

More than

80

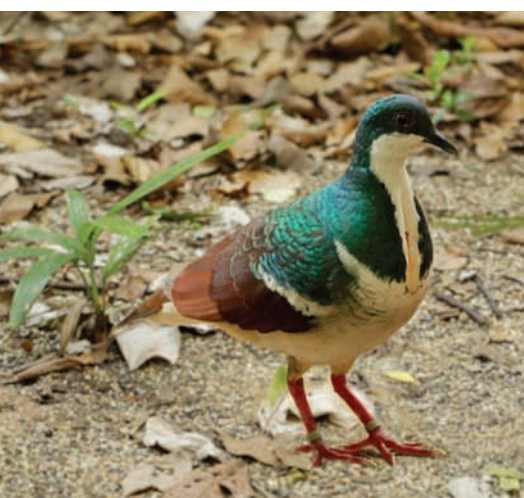
species have been biobanked, advancing long-term conservation and research efforts



Negros Occidental Governor Eugenio Jose Lacson, Her Excellency Constance See, Ambassador of Singapore to the Philippines, PENRO-Negros Occidental Officer-in-Charge Joan Nathaniel Gerangaya were among the key government officials present to celebrate the birds' arrival.

A HOPEFUL HOMECOMING

Negros bleeding-hearts begin new chapter in the Philippines



Found only on the islands of Negros and Panay, the Negros bleeding-heart is distinguished by an iconic red splash on its chest.

The Philippines' Department of Environment and Natural Resources, Mandai Wildlife Group, Mandai Nature and our conservation partner Talarak Foundation Inc, have maintained a long-standing partnership to restore wild populations of the Negros bleeding-heart on Negros island in the Philippines.

The collaboration began with the West Visayan Conservation Workshop in 2019, co-supported by Mandai Nature. This laid the groundwork for a One Plan Approach action plan for the critically endangered species, outlining a unified strategy combining resources and expertise to protect the species both in and outside its natural habitat.

To better secure populations, three pairs of pigeons arrived at Mandai Wildlife Group's Bird Paradise in September 2021, establishing the first insurance population and conservation breeding programme for the species outside of the Philippines. Under the care of the Bird Paradise team, 19 chicks have successfully hatched.

A major milestone followed in January 2025, when 10 pigeons were successfully repatriated from Singapore to the



The Negros bleeding-heart pigeons arriving at Negros Forest Park in Bacolod, the Philippines from Singapore.



Under a Sustainable Livelihood Programme, the Talarak Foundation team conducted training sessions for villagers on how to produce home-made food items as a source of income.

Philippines, in the first-ever move of its kind for the species. The birds are now housed in a conservation facility in Negros Forest Park, where they will remain under the care of Talarak Foundation Inc.



A nature-themed event at the Bayawan Nature Reserve bringing children and adults closer to native biodiversity through art and storytelling.

Photos: Mandai Wildlife Group, Talarak Foundation Inc.

Mandai Nature also supports Talarak Foundation's *in situ* efforts at Bayawan Nature Reserve on Negros island, from restoring habitats and maintaining the sustainability of wildlife, to community engagement through education, livelihood development, and capacity building amongst locals and students.

Protecting and understanding the Mandai Wildlife Reserve's wild residents

To deepen knowledge around wild species residing within the wildlife parks, Mandai Nature organised five biodiversity surveys across the Mandai Wildlife Reserve. These surveys not only uncover insights into the diversity and health of native species, but also enable researchers to design targeted conservation measures.



Clockwise from left: The crimson sunbird, painted bronzeback, green tree snail and common Mormon butterfly are just some of the incredible wildlife spotted in the Mandai Wildlife Reserve during in-park surveys.

What did our team and volunteers uncover?

- 50 invertebrate species (including insects, spiders, snails and butterflies)
- 28 herptile species (5 snake, 11 lizard and 12 amphibian species)
- 39 bird species

“As someone who hadn’t had much exposure to Singapore’s terrestrial fauna, participating in these biodiversity surveys at the Mandai Wildlife Reserve was the perfect starting point to learn about the native wildlife. They helped me realise that wilderness still exists in habitats shaped by humans – and deserves to be protected.”

Joshua Choo
Conservation & Research Officer,
Mandai Nature
Yale-NUS student



MANDAI FOCAL SPECIES

These wild species residing within the Mandai Wildlife Reserve have been identified as priority species for conservation and management:

- 1 Bamboo bats
- 2 Stingless bees
- 3 Sunda pangolin
- 4 Straw-headed bulbul
- 5 Sunda colugo
- 6 Long-tailed macaques

Photos: Carmen Choong, Delaney Eng, James Chua, Jingyi Lee, Mandai Wildlife Group

DISCOVERING THE WONDERS OF Sunda colugos



More than
150
individuals have been identified in the wildlife parks since 2020.

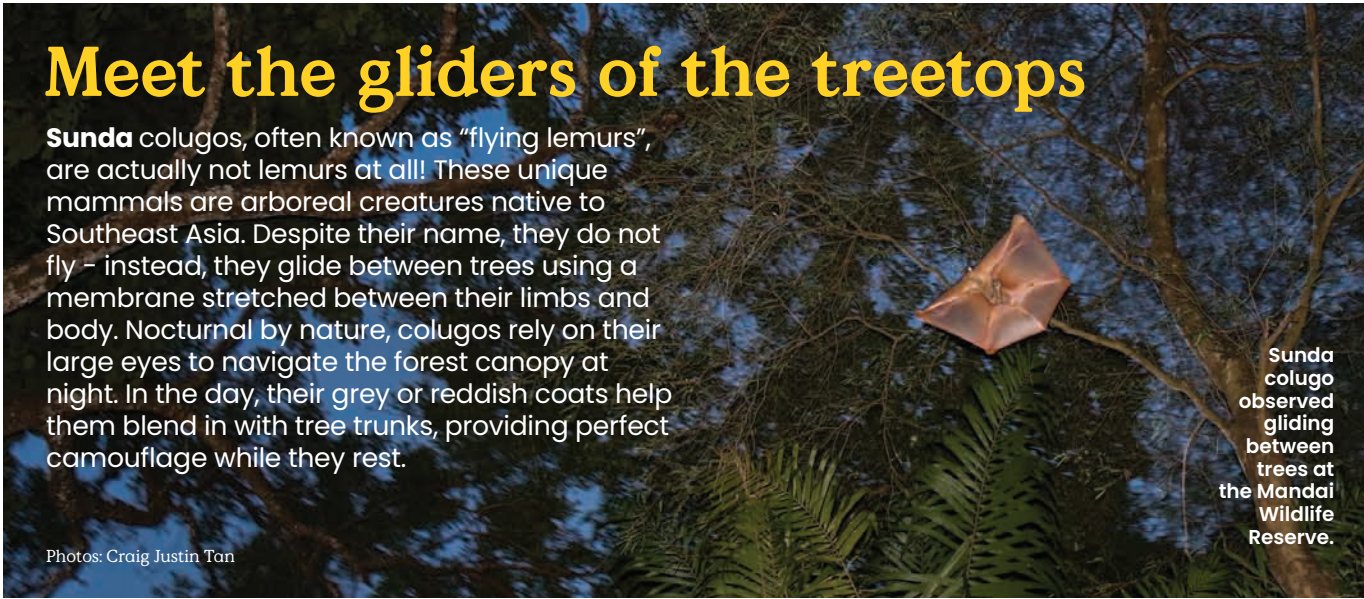
No two colugos look exactly alike. Their unique coat markings help researchers tell them apart and monitor their movements.

Despite their shy nature, Sunda colugos are a familiar sight in the Mandai Wildlife Reserve, often seen resting on trees within the wildlife parks. While little is known about their biology and behaviour, the presence of wild populations here offers a unique opportunity to study them in their natural environment.

Mandai Nature has embarked on a long-term research project to investigate the colugo’s lifespan, reproductive behavior, social dynamics, and dietary habits. These insights will help deepen understanding of this native species and guide our efforts to ensure they continue to thrive in and around the precinct.

Creating a visual ID guide

To support the research, the team is building a photographic identification guide to monitor individual colugos. By tracking repeated sightings and locations, the database reveals how these animals move through and use different parts of the precinct.



Meet the gliders of the treetops

Sunda colugos, often known as “flying lemurs”, are actually not lemurs at all! These unique mammals are arboreal creatures native to Southeast Asia. Despite their name, they do not fly – instead, they glide between trees using a membrane stretched between their limbs and body. Nocturnal by nature, colugos rely on their large eyes to navigate the forest canopy at night. In the day, their grey or reddish coats help them blend in with tree trunks, providing perfect camouflage while they rest.

Photos: Craig Justin Tan

Sunda colugo observed gliding between trees at the Mandai Wildlife Reserve.

A SECOND CHANCE

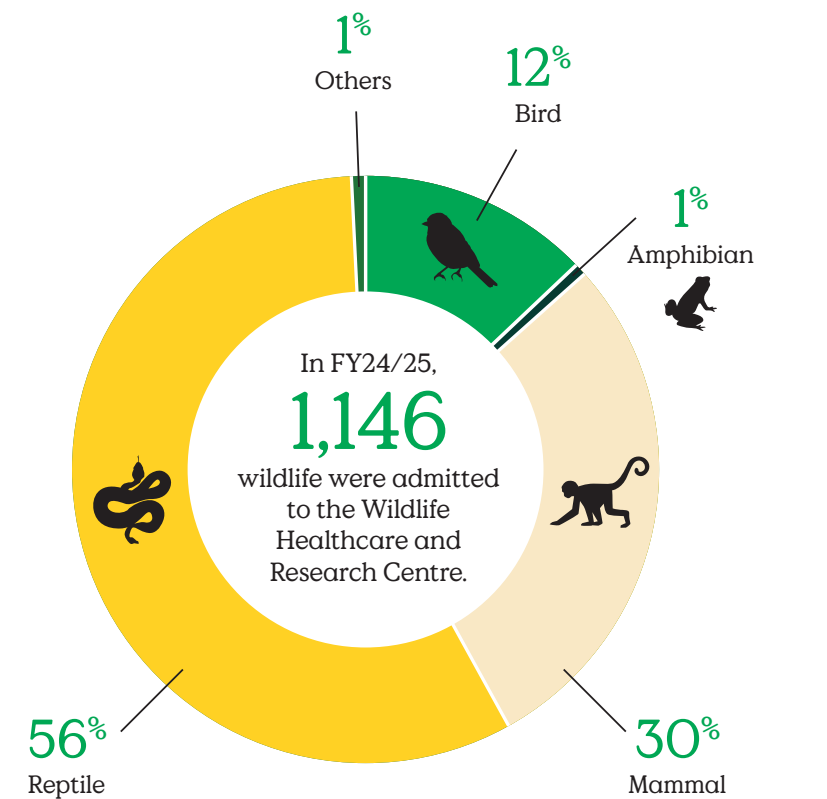
The journey of returning rescued wildlife to the wild

Mandai Wildlife Group's Wildlife Healthcare and Research Centre (WHRC) serves as a vital hub for rescued wildlife in Singapore. In collaboration with Mandai Wildlife Group, Mandai Nature provides specialised expertise in rehabilitating native wildlife rescued from various locations across Singapore by partners like the National Parks Board (NParks) and Animal Concerns Research and Education Society (ACRES). Rescued animals are admitted to the WHRC where they are assessed and receive treatment from the Group's Veterinary Healthcare team. This continues until their condition has stabilised and they are deemed ready for release into their natural habitats.



A member of the veterinary team prepares to microchip a rescued reticulated python for identification.

Photos: Mandai Wildlife Group



Dr Charlene Yeong, Senior Manager for Wildlife Health, Mandai Nature and Veterinarian, Mandai Wildlife Group tends to a rescued Sunda colugo at the WHRC.

From rehabilitation to release, these rescued native wildlife have beaten the odds. Thanks to the dedicated care of the teams from Mandai Wildlife Group and Mandai Nature, these animals have made incredible journeys of recovery back to the wild.



Photos: Chan Jie Yi, Mandai Wildlife Group

Sunda colugo



A juvenile Sunda colugo was rescued from the Singapore Zoo after being found with worn-down nails and signs of muscle injury.

While it was warded and treated by the Veterinary Healthcare team at Mandai Wildlife Group, the colugo's claws regrew sufficiently for them to be reshaped. It regained its ability to climb and cling to trees, and was successfully released back to the wild.

Painted bronzeback

A painted bronzeback was rescued after it had been sprayed with insecticide and was displaying concerning neurological symptoms. With prompt treatment, the snake made a full recovery and was successfully released back into the wild.

This case underscores the importance of educating the public about what to do when encountering urban wildlife, especially species that are not harmful to people and that serve an important ecological function.

Harnessing scientific research for conservation

In collaboration with local and regional academics, Mandai Nature co-authored several scientific studies that enhance understanding of species conservation and contribute to improved field practices.

Improving veterinary care for Sunda pangolins

Conducted at Mandai Wildlife Group's Wildlife Health and Research Centre, this study examined 20 Sunda pangolins and developed a novel intubation technique for administering anesthesia to improve veterinary care for the species.



Scan or click to access the full report, "Diagnostic imaging and orotracheal intubation in clinically healthy wild Sunda pangolins (*manis javanica*) in Singapore"

Mandai Wildlife Group's team intubating a Sunda pangolin.

Tracing trade routes through genomic analyses

Analysing the genomic data of 87 Swinhoe's white-eyes from wild, captive and confiscated sources, researchers uncovered crucial insights into the bird's trade patterns. The study revealed that while past trade routes primarily brought the species from China to Singapore, recent confiscations indicate a shift in the trade dynamics, now involving Malaysia. This research is pivotal in understanding the ongoing illegal wildlife trade and its impact on the species' conservation.



The Swinhoe's white-eye is one of the most widely traded songbirds in Southeast Asia.



Scan or click to access the full report, "Genomic data reveal shift in geographic source of an illegally traded songbird"

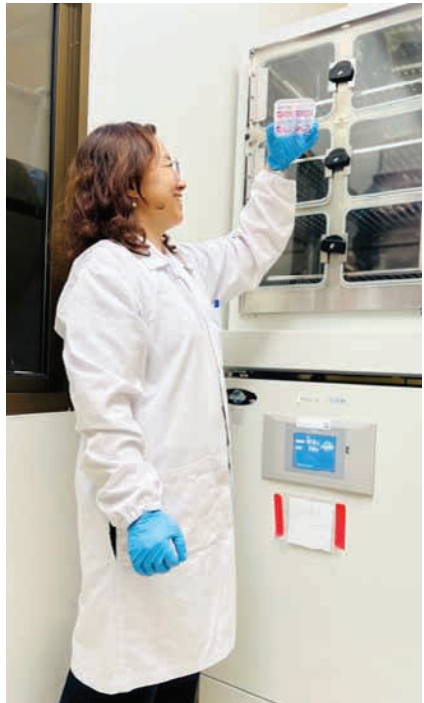
Photos: Mandai Wildlife Group, Francis Yap

The vital role of biobanking in conservation

The collection, storage and management of biological samples from animals is a crucial tool for advancing science and conserving threatened species. As part of a joint effort with Mandai Wildlife Group, Mandai Nature maintains a repository of biological samples such as DNA, tissues, somatic cells, stem cells, and gametes (sperm and egg cells). This biobank serves as a safety net for endangered species like the Sunda pangolin, contributing to global efforts in wildlife biobanking.

Efforts are also underway to expand our in-house biobanking capabilities beyond mammals, with new techniques being developed to derive live cells from reptiles, amphibians and birds.

Three specialised laboratories have been established within the Mandai Wildlife Reserve to support this work:



1 The **Cell Technology Centre** processes tissues from animals to extract genetic material, cryopreserve tissue and generate primary cultures. These cells are also programmed into induced pluripotent stem cells (iPSCs).



2 The **Embryo Research & Development Lab** focuses on developing assisted reproductive technology to support the reproduction of zoo animals.



3 The **Avian Cryopreservation & Research Centre** specialises in bird cryo-preservation and reprogramming of avian cells into iPSCs.

Photos: Mandai Wildlife Group

Singapore

Mandai Nature is nurturing the next generation of conservation leaders and researchers in Singapore – by strengthening local expertise, amplifying youth voices, and deepening public appreciation for our native wildlife. Through capacity building and awareness efforts, we're helping to place conservation at the heart of a City in Nature.

Long-tailed macaques are often seen in Singapore's forested areas, and occasionally in urban spaces. To foster a greater understanding and appreciation of their unique behaviours, Mandai Nature is supporting a research project through its flagship local grant programme. This initiative aims to deepen our knowledge of these fascinating primates and their role in the ecosystem. See page 24 for more details.

Photo credit: Mandai Wildlife Group

More than
1,000

volunteers trained through the Raffles' Banded Langur Working Group's citizen science programme

More than
360

youths engaged in targeted programmes and activities for conservation capacity building and education

SINGAPORE
CONSERVATION
IMPACT
GRANT

Understanding macaque communication and the impact of urban noise

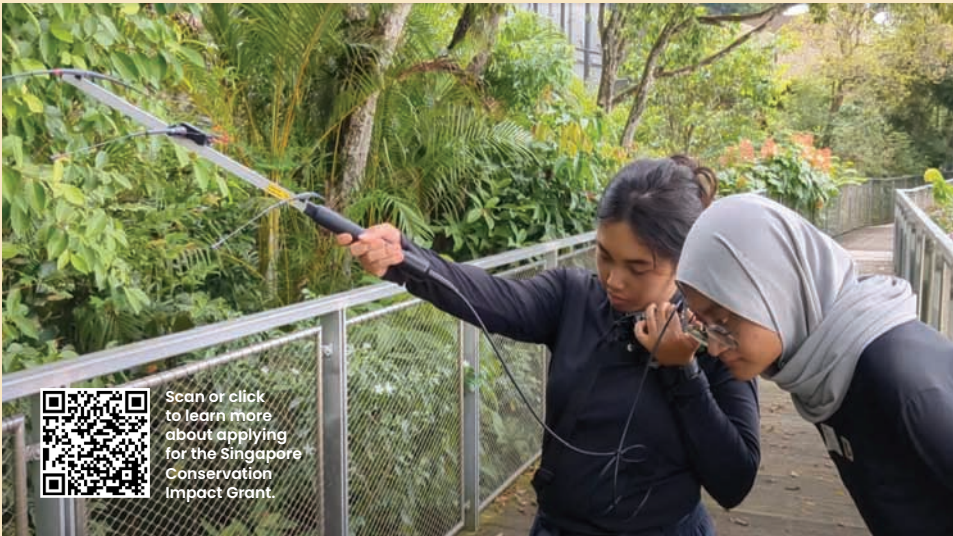
Sim Yue Ling
PhD student, Nanyang Technological University

Long-tailed macaques are integral to Singapore’s native ecosystems, but as urban development encroaches on their habitats, they are increasingly found in close proximity to humans. Known for their intelligence and social structure, macaques use a variety of vocalisations to communicate. Yet, little is known about how these sounds are used and how human-made noises affect their vocal behaviour. This research, which focuses on recording and analysing their calls, seeks to deepen our understanding of macaque communication and promote efforts to reduce noise pollution in natural spaces, enhancing the protection of wild soundscapes.



Long-tailed macaque observed in Singapore’s wildlife park.

ABOUT THE GRANT



The Singapore Conservation Impact Grant provides S\$200,000 annually to support local biodiversity research and conservation projects. It aims to deepen understanding of Singapore’s wildlife, build local conservation capacity, and contribute to the City in Nature goals of **Biodiversity, Ecological Connectivity, and Biophilia**.

Photos: Mandai Wildlife Group

With support from the Singapore Conservation Impact Grant, research is now underway to better understand and protect Singapore’s songbirds, horseshoe crabs, and wild shark and ray populations.

SONGBIRDS

Mapping out the life history and ecology of Singapore’s songbirds



A chestnut-winged babbler with a radio tag attached. The tag allows researchers to monitor daily movements of the birds and gain insights into their range sizes.

HORSESHOE CRABS

Population ecology and captive breeding of the coastal horseshoe crab



A group of Republic Polytechnic students measuring a coastal horseshoe crab found during a field survey at Coney island.

SHARKS & RAYS

Examining the impact of recreational fishing on wild shark and ray populations



Photos: Mayjean Nieves, Republic Polytechnic, Maryam Saleel Kolakkodan

Through surveys and focus group discussions, a research team from the National University of Singapore is developing a best-practice framework for recreational anglers in Singapore to help protect shark and ray populations.

Connecting and empowering youth for a sustainable future in wildlife trade

The CITES Global Youth Network (CGYN), launched in April 2024, puts young people at the heart of shaping a sustainable future for wildlife. The platform connects youth worldwide to exchange ideas, develop leadership skills, and contribute meaningfully to global conversations on wildlife trade and conservation.

CGYN operates under the guidance of the National Parks Board, the CITES Secretariat and Mandai Nature.

“Recognising that young people are the future stewards of wildlife and biodiversity, I co-founded the CITES Global Youth Network to build relationships with and empower youth leaders in the fight against illegal wildlife trade.”



Ting Wai Kit
Youth Programme Coordinator, Mandai Nature;
Co-founder, CITES Global Youth Network



The founding members of CGYN with mentors and partners at Singapore Zoo during the CITES Youth Leadership Programme.



Participants embarked on an ‘amazing race’ through Singapore Zoo, tackling hands-on activities and challenges that explored the complexities of the illegal wildlife trade.



CITES Secretary-General Ivonne Higuero and Minister for National Development and Minister-in-Charge of Social Services and Integration Desmond Lee at a panel discussion on global environmental leadership in April 2024.

To mark the launch of CGYN, the inaugural CITES Youth Leadership Programme brought together 41 young leaders from over 30 countries in Singapore.

Over four days, participants engaged in thought-provoking dialogues, hands-on workshops, and immersive experiences that set the foundation for this global youth movement.



Youths conducting a simulated Conference of the Parties (COP) session to experience global negotiations and proceedings at a CITES COP.



Scan or click to follow CGYN on their social media channels



Scan or click to watch how CGYN is bringing global youth together to facilitate discussions around wildlife trade

Inspiring youth to take action for conservation



Dr Sonja Luz, CEO of Mandai Nature, kicking off the first Mandai Research Symposium with a sharing of her journey going from veterinary work to conservation.

Mandai Nature supported various initiatives in the past year which engage our younger generations, helping them spark curiosity and develop scientific skills.

This year, we engaged students and educators from schools across Singapore through the inaugural Mandai Research Symposium and the Mandai Action for Wildlife programme, both organised by Mandai Wildlife Group. These initiatives provided young minds with a firsthand look at wildlife conservation and research, inspiring them to explore ways to contribute to protecting Singapore’s natural heritage.



It’s a wrap! Students and event partners celebrating the successful conclusion of the first-ever Mandai Action for Wildlife programme, alongside teams from Mandai Nature and Mandai Wildlife Group.



As part of the Mandai Action for Wildlife programme, students partnered with staff from Mandai Nature and Mandai Wildlife Group to develop creative, hands-on solutions for protecting biodiversity.

Right: Dr Jessica Lee, Head of Avian Programmes and Partnerships, shed light on efforts to protect threatened bird species, such as the globally critically endangered straw-headed bulbul in Singapore.



Nearly 300

primary and secondary students actively participated in wildlife conservation and research learning experiences.



Left: Dr Charlene Yeong, Senior Manager for Wildlife Health, discussed the critical risks wildlife like pangolins and snakes face from traffic and shared powerful stories from her work treating injured animals.

PROMOTING COEXISTENCE WITH WILDLIFE

The Our Wild Neighbours (OWN) campaign

As the Campaign Manager for OWN, Jasvic Lye has been the driving force behind the campaign's activations, leading conversations on fostering harmony between people and wildlife in Singapore. She reflects on key milestones and shares heartwarming stories that have shaped the campaign's journey.

■ **It's been 3 years since the OWN campaign launched. What milestones are you most proud of?**

"Since its launch in 2022, OWN has grown from a simple educational website into a nationwide movement. We have organised or participated in over 60 events, from heartland communities to international platforms, and partnered with libraries to run nearly 30 outreach programmes across the island. Our official video, created by award-winning



Jasvic introducing the OWN campaign to international representatives from over 30 organisations at the Wild Animal Rescue Network (WARN) Conference in Laos.

wildlife photographer Jayaprakash Bojan, effectively conveyed wildlife coexistence messages, reaching new audiences and expanding our campaign's reach."

■ **Have you noticed a shift in how people view and interact with native wildlife?**

"Absolutely! At our outreach events, we often hear how people's attitudes have evolved. For instance, when we share how pythons help control rodent populations, many gain a new appreciation for their role in the ecosystem, turning fear or misunderstanding into respect."



Jasvic connecting with a young audience member at one of OWN's travelling roadshows in Singapore.

Photos: Our Wild Neighbours



The Our Wild Neighbours (OWN) campaign, funded by Mandai Nature, has reached an estimated 116,300 people through its travelling roadshow, public talks, children's programmes and other outreach activities.



His Royal Highness, the Regent of Pahang, Crown Prince Tengku Hassanal Ibrahim Alam Shah with Minister for National Development and Minister-in-Charge of Social Services and Integration Desmond Lee visited OWN's educational booth at HeART for Nature 2024, an art and wellness festival.

■ **Can you share a memorable episode where you saw how the campaign made a real difference?**

"One moment that really stuck with me involved a man who was clearly frustrated by the loud "uwu" calls of the Asian koel. He didn't hold back his annoyance. But when I explained that the koel plays a role in controlling

crow populations, and that its call is actually a mating signal, which is a sign of healthy biodiversity, his perspective changed completely. He responded, "Wow, I didn't know that. I actually like these birds now!" It was such a powerful reminder that understanding fosters appreciation and that's the first step toward coexistence."

Advice
for aspiring
conservationists
and
changemakers

"Get involved. Volunteer with nature groups to learn more about our biodiversity and engage with those who've dedicated years to this work. When we understand, we appreciate – and when we appreciate, we become more accepting and learn to live alongside our wildlife."



Scan or click to watch the Our Wild Neighbours video



Scan or click to volunteer with the OWN campaign

BRINGING NATURE TO THE COMMUNITY

The Festival of Biodiversity



Colleagues from Mandai Nature and Mandai Wildlife Group engaging with visitors who graced our booth at the Festival – including our Patron President Tharman Shanmugaratnam, who was Guest-of-Honour for the event.

Mandai Nature joined over 20 nature-focused groups at the annual Festival of Biodiversity on 25–26 May 2024, organised by the National Parks Board. This two-day event provided an interactive platform for the public to discover Singapore's rich native biodiversity and ongoing conservation efforts through booths, workshops, and hands-on activities.

At Mandai Nature's booth, visitors learned about our collaborative efforts with Mandai Wildlife Group to

protect species like the bamboo bat, which can be found in the Mandai Wildlife Reserve and throughout Singapore. We also gave attendees a chance to see essential field research tools, offering a behind-the-scenes look at the important work involved in biodiversity monitoring.

More than
16,000

people
attended
the Festival,
inspiring
greater
awareness
and
dialogue on
conservation
in Singapore.



Photos: Mandai Nature

Safeguarding species through collective actions

Mandai Nature leads and participates in various species working groups, which bring government agencies, conservation organisations and independent entities together to advance the conservation and management of Singapore's wildlife:



SPOTLIGHT

Raffles' Banded Langur Working Group

Since its inception in 2016, Mandai Nature has funded and managed the Raffles' Banded Langur Working Group, which has developed and continues to implement a Species Action Plan to strengthen habitat protection, improve population research, and raise public awareness for the Raffles' banded langur in Singapore.

More than
1,000

volunteers
trained
through
the Raffles'
Banded
Langur
Working
Group's
citizen science
programme.



Katherine and her daughters have been part of the citizen scientist network gathering sightings of the Raffles' banded langur in nature parks like Lower Peirce Reservoir Park.

“It feels great that we can make a difference for the Raffles' banded langurs through the citizen science programme, which is easy enough even for the kids to participate in. It not only helps us become more aware of environmental issues but also try to work on them.”

Katherine Kim

Citizen science volunteer

As part of outreach efforts, the Working Group launched a citizen science programme in 2016, inviting members of the public to help survey the species in Singapore. After 16 rounds, it has built a committed volunteer community contributing valuable data from Singapore's nature parks.

Photo: Katherine Kim

EMPOWERING ECOSYSTEMS

Strengthening biodiversity advocacy

Mandai Nature has been actively engaged with our stakeholders across Singapore, to foster collaborations amongst diverse audiences and champion the protection of our planet. Through participating in various Temasek Trust-led or supported initiatives, we have contributed key insights in biodiversity conservation, hoping to inspire meaningful action for nature.

■ Asia Leaders Connect



Mandai Nature with some delegates from the annual Asia Leaders Connect, Temasek Foundation's flagship high-level convening of selected public, private and philanthropic sector leaders. Our team brought attendees on a guided tour of Bird Paradise, showcasing the park's commitment to conservation and sustainability efforts.



■ Philanthropy Asia Summit 2024

Mandai Nature with speakers and delegates at the Philanthropy Asia Summit 2024. Our CEO and member of the Southeast Asia Climate and Nature-based Solutions (SCeNe) Coalition Steering Committee, Dr Sonja Luz, shared about the role of SCeNe, the importance of collaborations, and the initiatives that have launched under the Coalition.



■ Frontiers in Impact: Planet

Dr Jessica Lee sharing about Mandai Nature's role in catalysing positive change for people and nature at "Frontiers in Impact: Planet", the inaugural Strategy Collective organised by Temasek Trust.

■ The Earthshot Prize Asia Youth Leaders Programme

Mandai Nature hosting an immersive programme for 20 young Asian climate leaders as part of The Earthshot Prize Asia Youth Leaders Programme by Temasek Foundation and Tsao Pao Chee, organised by Common Purpose. Held at Bird Paradise, our team shared insights and engaged youths on the importance of wildlife conservation in addressing global climate and biodiversity challenges.



Photos: Temasek Foundation, Temasek Trust, Philanthropy Asia Alliance

A critically endangered southern river terrapin and a hatchling at the Koh Kong Reptile Conservation Centre. Last year, the centre expanded its conservation efforts by opening new breeding and head-starting ponds, a significant milestone in the species' conservation, led by the Wildlife Conservation Society (Cambodia) and the the Cambodian Fisheries Administration.

Photo: Wildlife Conservation Society (Cambodia)

Southeast Asia

Mandai Nature works hand in hand with dedicated partners across Southeast Asia to bring some of the region's most threatened species back from the brink of extinction. Through long-standing collaborations and carefully mapped out strategies, we are driving meaningful impact for wildlife, places and people.

4,471
hectares of suitable habitat and wildlife corridors established through restoration efforts

Nearly
458,000
hectares of critical habitat protected

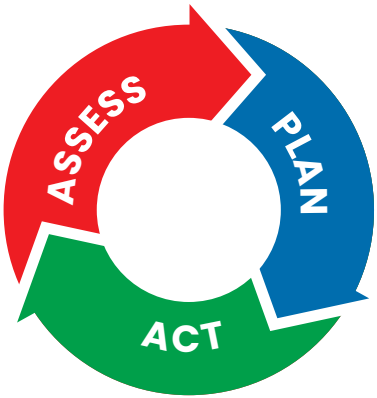
More than
68,000
individuals engaged in programmes and activities for conservation education and awareness

More than
290
tonnes of wildlife-friendly products, including sustainable crops, produced by local communities



Strengthening conservation outcomes through the Assess-Plan-Act approach

The IUCN SSC Centre for Species Survival: Southeast Asia, hosted by Mandai Nature, aims to evaluate the status as well as plan and implement steps for the recovery of threatened species in the region within the “Assess, Plan, Act” conservation framework.



ASSESS

■ Supporting the IUCN Red Listing processes in the region and facilitating Assess-to-Plan workshops

ACT

■ Acting through funding and in-kind support for over 40 conservation projects in Southeast Asia, with non-profit organisations delivering conservation programmes on the ground

■ Acting through strategic partnerships and coalitions to address the species extinction crisis and critical conservation issues in Southeast Asia

PLAN

■ Enhancing species planning for key species through integrated approaches and alignment of conservation priorities through the IUCN SSC Conservation Planning Specialist Group (CPSG) Southeast Asia Resource Centre

+ **NETWORK**

+ **COMMUNICATE**

■ Implementing the 3 components of Assess, Plan, Act requires additional components of Network and Communicate to increase the impact

MAKING CONSERVATION COUNT

Communicating the framework for greater impact

COMMUNICATE



Mike Barclay, Group CEO, Mandai Wildlife Group kicking off the satellite event with an introduction of the important role zoos and conservation organisations like Mandai Nature play in driving species conservation.

Mandai Nature hosted a satellite event, “Driving species recovery: How Are We “Reversing the Red” in Southeast Asia?,” in celebration of the inaugural World Species Congress by Reverse the Red.

Nearly 80 staff members from Mandai Nature and Mandai Wildlife Group gathered for the lunchtime event, where colleagues took the stage to introduce the Assess, Plan, Act conservation framework. They also shared insights into how the IUCN SSC Centre for Species Survival: Southeast Asia is driving species recovery efforts across the region and how both organisations are actively contributing to this important work.

Photos: Mandai Wildlife Group



Luke Harding, Curator of Animal Care at Mandai Wildlife Group, emphasises the collaborative global efforts by organisations, including Mandai Wildlife Group and Mandai Nature, to protect the critically endangered Rote snake-necked turtle and repopulate the species in its native Indonesia.



Roopali Raghavan, Head of Terrestrial Conservation and Conservation Planning at Mandai Nature, sharing about the “Assess, Plan, Act” conservation framework and outlining how the organisation has contributed to the various aspects of the framework.



The critically endangered Raffles' banded langur is endemic to Singapore and southern Peninsular Malaysia. It is listed in the top 25 most endangered primates in the world.

“With the launch of this action plan, we are shining a much-needed spotlight on several highly endangered species that have long been overlooked despite their rapidly declining populations and importance to Southeast Asia’s unique biodiversity.”

Dr Russell Mittermeier
Chairman, IUCN SSC Primate Specialist Group
Chief Conservation Officer, Re:wild

A landmark plan to protect Asia’s langurs

ASSESS

PLAN

In August 2024, the first-ever genus action plan for a highly threatened group of Asian primates was launched. Led by the IUCN SSC Primate Specialist Group, Mandai Nature, Re:wild, German Primate Center, and Primate Conservation Inc., this plan was developed by international primate experts and conservationists. It outlines key priorities and actions for the next decade, calling for unified efforts across Southeast Asia to protect 20 species of Asian langurs in Brunei, Indonesia, Malaysia, Myanmar, Singapore, and Thailand, and to prevent their extinction.

More than
85%

of Asian langurs are threatened with extinction, making them one of the continent’s most threatened primate groups.



The critically endangered East Sumatran banded langur is found only in a number of isolated and unprotected lowland forests in Riau province, east-central Sumatra.

What are some key threats faced by the langurs?

Habitat loss

Extensive deforestation in the region has severely impacted populations. More robust protection of core habitats, including restoring wildlife corridors and enhancing preventive measures against forest fires are essential for their protection.

Poaching

Several langur species are hunted for their meat, bones and bezoar stones, or poached for the illegal pet trade. Increased awareness through education and policy change is needed to reduce hunting pressure.



A maroon langur in Danum Valley Conservation Area, Borneo. Also known as the red leaf monkey for their shaggy auburn coat, this species is endemic to the jungles of Borneo in Indonesia and Malaysia.

Photos: Budi Koesoemo, Dr Andie Ang, Ahdiani, Chien Lee



The Natuna Island langur is a species of langur that can only be found in the Natuna Islands of Indonesia.

Raising awareness for colobine monkeys

In conjunction with the launch of the action plan, the International Colobine Monkey Day was established and officially endorsed by the International Union for the Conservation of Nature (IUCN) on 25 August.

This day is dedicated to raising awareness about the conservation needs of colobine monkeys, a sub-family of primates that includes all Asian langurs.



Scan or click to access the full report, “Asian langurs (*Presbytis*) conservation action plan 2024–2034

A STRATEGY FOR OUR SHORELINES

Planning a future for horseshoe crabs

PLAN

Horseshoe crabs have inhabited our shorelines for over 400 million years, but global populations of this “living fossil” are threatened by overharvesting, coastal development and habitat degradation.

To better understand their ecology and ramp up coordinated conservation action for them, over 100 species experts and conservationists from NGOs, government agencies and research institutions gathered for the 5th International Horseshoe Crab Workshop in Singapore in June 2024. The five-day event was organised by the IUCN SSC Horseshoe Crab Specialist Group and Nature Society Singapore.

Mandai Nature co-facilitated the multi-species conservation planning sessions, employing Assess-to-Plan methodologies to develop a conservation plan for the coastal horseshoe crab, mangrove horseshoe crab and tri-spine horseshoe crab.



Two of the four remaining horseshoe crab species – the coastal horseshoe crab (pictured) and the mangrove horseshoe crab – are native to Singapore.



A breakout session in progress where participants identified gaps in existing measures to protect horseshoe crab populations in Asia.



The conference featured keynote and oral presentations by conservationists and researchers on topics like population genetics, conservation models, and public awareness of the species.

Photos: Nature Society Singapore, Republic Polytechnic



Mandai Nature is a long-term supporter of the Philippine Eagle Foundation's efforts to protect the critically endangered Philippine eagle – one of the world's rarest birds of prey.

Shaping conservation planning across Southeast Asia

PLAN

Mandai Nature co-facilitated a population viability assessment workshop for the Philippine eagle in April 2024. Organised by the Philippine Eagle Foundation, the session looks at baseline population data, threats and existing strategies to determine the eagle's likelihood of survival or extinction under specific conditions.

Mandai Nature and the IUCN SSC Asian Species Action Partnership (ASAP) presented a proposed ASEAN action plan for ASAP Species to the ASEAN Working Group on Nature Conservation and Biodiversity during a meeting held in Singapore. The plan was developed following a workshop in 2023, bringing together 30 biodiversity experts from ASEAN Member States to formulate a plan for collaborative protection of nearly 290 critically endangered land and freshwater vertebrate species.

Photos: Philippine Eagle Foundation



Facilitating development of a vision for the Philippine eagle with all stakeholders at the population viability assessment workshop.



More than 100 representatives gathered at the 34th Meeting of the ASEAN Working Group on Nature Conservation and Biodiversity – an initiative by ASEAN leaders to strengthen regional collaboration in tackling conservation challenges and promoting the sustainable use of biodiversity.

FROM REDISCOVERY TO RECOVERY

ACT

Charting the conservation journey of the southern river terrapin in Cambodia

Species
Southern river terrapin
(*Batagur affinis*)

Location
Koh Kong Province,
Cambodia

Partner
Wildlife Conservation Society
(Cambodia)

2001

The southern river terrapin, thought to be extinct in Cambodia, is rediscovered in the Sre Ambel river. The Wildlife Conservation Society (Cambodia) and the Cambodian Fisheries Administration begins working to restore wild populations of the species.

2005

The species is designated as Cambodia's National Reptile by Royal Decree, in a bid to raise conservation awareness for the species. It is commonly known locally as the "Royal Turtle".

2012

Mandai Nature (formerly Wildlife Reserves Singapore Conservation Fund) begins supporting conservation efforts for the species – including field monitoring, nest protection and community outreach. Construction begins on a breeding and head-starting facility.

2015

WCS Cambodia and the Cambodian Fisheries Administration begin reintroduction efforts with the release of 21 head-started turtles into the Sre Ambel river.

2017

The Koh Kong Reptile Conservation Centre is officially opened. The Ministry of Mines and Energy stops sand dredging activities in the Sre Ambel river, allowing beaches along the river to become more conducive nesting ground.

2020

23 turtles hatched from nests along the Sre Ambel river, more than the total number hatched in the previous three years combined.

2024

As conservation efforts expand, a new breeding facility at the Koh Kong Reptile Conservation Centre is unveiled. 20 turtles are also released in the tenth such exercise since 2015, bringing the total number of turtles returned to the wild to 206.



Robin Hu, Chairman, Mandai Nature, unveiling a new breeding pond for the southern river terrapin at the Koh Kong Reptile Conservation Centre.



WCS Cambodia staff conducting regular health checks on individuals held at the Koh Kong Reptile Conservation Centre.



Local authorities, community leaders and villagers with the WCS Cambodia team at a turtle release ceremony in 2021.

BACK FROM THE BRINK

Rebuilding a future for the Palawan forest turtle

ACT



Staff keeping a watchful eye with regular health checks on the assurance colony of the turtles at Katala Institute for Ecology and Biodiversity Conservation.



Nearly 4,000 Palawan forest turtles confiscated from the illegal trade in 2015.



Small radio transmitters are safely attached to the two individual turtles to monitor their movements in the wild for three months post-release in 2021.



Listed among the world's 25 most endangered turtles, the Palawan forest turtle is endemic to the Palawan group of islands in the Philippines.

Species
Palawan forest turtle
(*Siebenrockiella leytensis*)

Location
Palawan, the Philippines

Partner
Katala Foundation Inc.

2004

After 80 years of absence, wild Palawan forest turtle populations are rediscovered on Palawan island – triggering a surge in the illegal trade of the species as exotic pets, and causing numbers to plummet.

2006

Katala Foundation Inc. and the Palawan Council for Sustainable Development launched the Philippine Freshwater Turtle Conservation Program, with the turtle designated by Katala Foundation Inc as a flagship species for its conservation efforts.

2014

Mandai Nature (previously through Wildlife Reserves Singapore) begins supporting *in situ* and *ex situ* conservation through habitat protection, population monitoring and improved conservation breeding facilities.

2015

Over 4,000 turtles are found in a warehouse – believed to represent most of the remaining wild population at the time. With the help of an international team including veterinarians from Mandai Wildlife Group, more than 3,300 individuals are rescued and released back into the wild.

2018

After years of conservation breeding efforts at the Katala Institute for Ecology and Biodiversity Conservation (KIEBC), two Palawan forest turtles hatch under human care for the first time.

2021

Despite challenges posed by the pandemic, two captive-bred juvenile turtles are released into a protected area within their native range, marking another milestone in the species' recovery.

2024

Since 2018, 61 turtles have hatched and 40 released into protected areas to boost wild populations. Katala Foundation Inc continues monitoring, expanding protected zones with authorities, and engaging communities to raise awareness of Palawan's natural heritage.

Transforming conservation leadership in Southeast Asia



The ASAP Network of Women (NOW) Leaders is a flagship initiative dedicated to empowering women working in conservation in Southeast Asia. This transformative programme develops strategic leadership skills, creates strong networks and builds resilience. In November 2024, the IUCN SSC Asian Species Action Partnership (ASAP), hosted by Mandai Nature, celebrated the graduation of the second cohort of NOW Leaders.

In addition, ASAP launched the NOW Collective, an alumnae network for continued skills building, shared learning and strengthening collaborations among NOW Leader graduates.



Amanda Shia, Scientific Officer at HUTAN in Malaysia, contributing to a session at NOW Leaders 2024.



NOW Leaders 2024 participants showing support during a sharing session.



15 women conservationists that made up the 2024 NOW Leaders cohort celebrate the start of their eight-month journey together during a retreat in Cambodia.



Scan or click to watch the video highlights of the second NOW Leaders cohort

Photos: ASAP

Targeted funding for greater conservation impact

ASAP delivers crucial support to partners through various funds such as the Species Conservation Fund and the Rapid Action Fund. These funds are tailored to meet different needs within the conservation landscape, from supporting urgent interventions for species on the brink of extinction, to enabling a fast response to conservation emergencies.

By working closely with their partner network, the team can direct vital resources where they are most needed.

More than
US\$275,000
awarded
in grants



The Species Conservation Fund has enabled the Lao Conservation Trust for Wildlife to determine the presence of captive Siamese crocodiles in Lao PDR and begin work on a conservation breeding programme for the critically endangered species.

Equipping partners and unlocking potential

ASAP has deepened engagement with partners to strengthen conservation capacity across Southeast Asia, by equipping them with practical skills and tools to enhance their impact. This year, this tailored support included facilitating sponsorships for five partners to attend an EarthRanger workshop.

To address challenges in securing funding, ASAP also held a training programme in partnership with the Tropical Biology Association (TBA) on Project Design and Fundraising. Specifically designed for conservation organisations in Southeast Asia, the online course provided 19 practitioners with essential skills in grant writing and project proposal development.



ASAP Partners with the EarthRanger team in Cambodia, where they gained hands-on experience in using technology to boost fieldwork effectiveness.

Photos: Lao Conservation Wildlife Trust, TCS Malaysia

Rallying a global call to protect wildlife

ACT

As host of the first IUCN SSC Centre for Species Survival in Southeast Asia, Mandai Nature participated in the 5th IUCN Species Survival Commission (SSC) Leaders' Meeting, which focused on driving collaborative and integrated solutions to halt biodiversity loss, address climate change and enhance human well-being.

Following four days of plenary sessions, workshops and discussions, the meeting concluded with a unified call to action: "Saving Species Sustains Life", highlighting the critical link between biodiversity and human well-being. The declaration calls for collective action for species conservation through government policy, sustainable business practices and community collaboration.



Over 300 conservation leaders from around the world representing the IUCN Species Survival Commission gathered for the forum in Abu Dhabi, United Arab Emirates.



ASAP's sharing on the important role of partnerships and collaborations for catalysing conservation action.



The IUCN SSC Asian Songbird Trade Specialist Group was awarded the SSC Chair's Citation of Excellence for contributions to delivering a Species Strategic Plan. Read more about their achievements on the next page.



Scan or click to watch how the Centre for Species Survival is acting for conservation in Southeast Asia

Photos: Environment Agency – Abu Dhabi, ASAP

Advancing songbird conservation in Asia

ACT

In June 2024, the IUCN SSC Asian Songbird Trade Specialist Group (IUCN SSC ASTSG) held its second in-person meeting in Yogyakarta, Indonesia, gathering over 50 members from across the region.

The meeting started with a public seminar at Universitas Atma Jaya Yogyakarta, attracting over 110 participants, including key government representatives from Singapore, Indonesia, and Malaysia. Through exhibitions, panel discussions, and talks, the event significantly raised awareness about the urgent need for action on songbird trade and conservation.

Workshop sessions by IUCN SSC ASTSG also helped refine an eight-year workplan – set for release in 2025 – to guide strategic efforts addressing the songbird crisis. Hosted by Mandai Nature and established under the IUCN Species Survival Commission, the IUCN SSC ASTSG is the first of its kind dedicated to preventing the extinction of Asia's threatened songbirds.



Head of the SubDirectorate of Species and Genetic Conservation, Ministry of the Environment and Forestry, Republic of Indonesia, giving the opening address.



Following the seminar, members participated in a three-day workshop to refine priority actions for IUCN SSC ASTSG's eight-year workplan.



IUCN SSC Asian Songbird Trade Specialist Group members gathering in full force for the first time in Yogyakarta, Indonesia.

Photos: IUCN SSC Asian Songbird Trade Specialist Group

To strengthen local capacity, SCSNe Coalition conducted training sessions for users in eight cities across Indonesia, the Philippines, Thailand and Cambodia.



Unlocking the potential of nature-based solutions in Southeast Asia

ACT

Since its launch at COP28 in 2023, the Southeast Asia Climate and Nature-based Solutions (SCSNe) Coalition's Nature-based Solutions (NbS) Tool has played a pivotal role in accelerating the adoption of high-quality, triple-benefit NbS across the region.

In the past year, the tool has empowered frontline organisations by offering real-time data, local context and actionable insights to improve planning, prioritisation and effective implementation of NbS.

Photo: WRI Indonesia

THE NBS TOOL IN ACTION

127

local NGOs, government agencies and community-based organisations supported

More than 500

NbS project opportunities identified

More than 5,000

users across Southeast Asia

“The NbS tool could support our diverse needs like generating documents for social forestry or management plans by measuring areas and potential carbon sequestration.”

Adiosyafri
Director, Research and Campaign
Hutan Kita Institute
Indonesia

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TOGETHER FOR NATURE

Our supporters

We are deeply grateful to our donors, partners and friends who have stood with us on our journey to build a world where wildlife and people thrive together. Your unwavering support has been instrumental in turning our vision into meaningful, lasting action.

As we look ahead, we invite you to continue walking this path with us, as fellow catalysts for change, builders for hope and convenors of collective impact. Together, we can expand our efforts on the ground, reach more critical ecosystems, and invest in the next generation of changemakers who will carry forward this mission with passion and purpose.

We look forward to all we can achieve together.

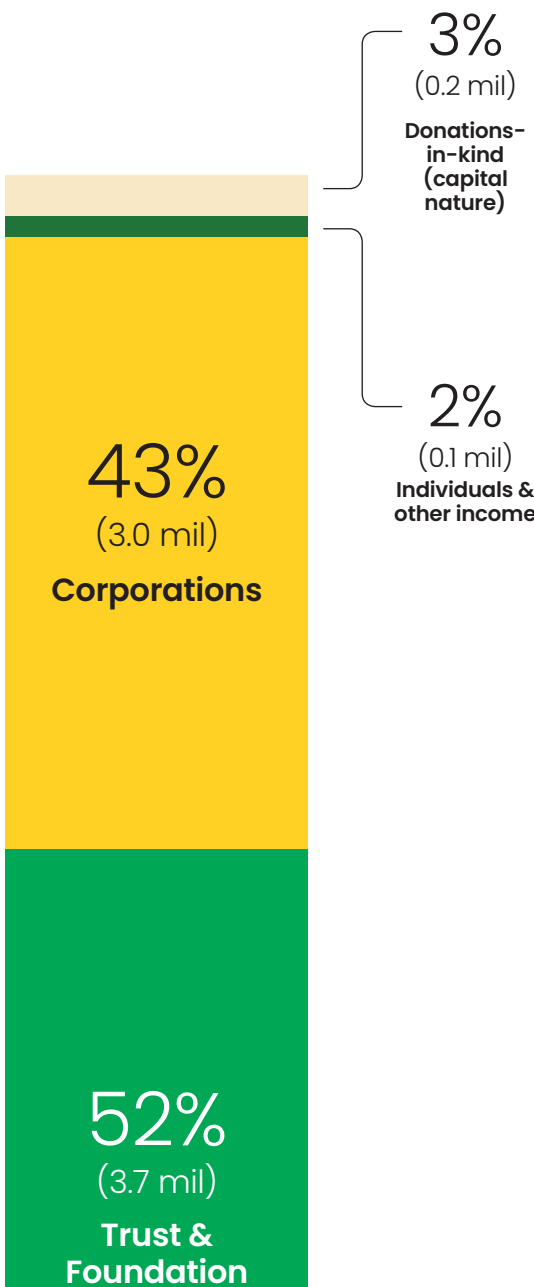


All other donations received that support our work

To partner us in building the future of conservation, contact us at:
partnerships@mandainature.org

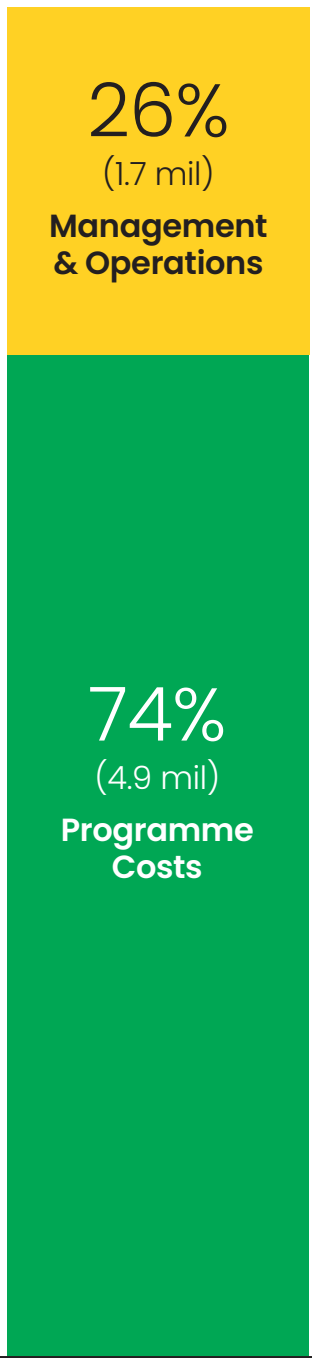
Total Funding

\$7.0 million



Total Expenditure

\$6.6 million



No.	Project Name	Country	Species	Taxon Group	Partner Organisation
1	Advancing conservation of lower Mekong wetlands at Anlung Pring, Cambodia: towards a Sarus Crane safe landscape	Cambodia	Sarus crane	Bird	BirdLife International (Asia) Limited
2	Climate-resilient sustainable agriculture to improve livelihoods and biodiversity habitat quality at Anlung Pring Protected Landscape	Cambodia	Sarus crane	Bird	Wildfowl & Wetlands Trust
3	Assessing the priority habitats and distribution for breeding populations of Red headed Vultures in the Eastern Plains Landscape	Cambodia	Red-headed vulture	Bird	BirdLife International (Asia) Limited
4	Restoring a viable population of Siamese Crocodile within the Sre Ambel River System, Cambodia	Cambodia	Siamese crocodile	Reptile	Wildlife Conservation Society Cambodia
5	Conservation of the Critically Endangered Southern River Terrapin <i>Batagur affinis</i> in the Sre Ambel	Cambodia	Southern river terrapin	Reptile	Wildlife Conservation Society Cambodia
6	Sustainable Operation of the Elephant Response Unit (ERU) Tegal Yoso And Braja Harjosari in as part of the Way Kambas National Park ERU Program for Habitat Protection And HEC Mitigation	Indonesia	Sumatran elephant	Mammal	Community for Sumatra Nature Conservation / Komunitas untuk Hutan Sumatera
7	Project Kopi Owa: Javan Gibbon Conservation in Central Java, Indonesia	Indonesia	Multiple primate species	Mammal	Yayasan Swaraowa
8	An integrated project to combat climate change and songbird trade in West Kalimantan, Indonesia	Indonesia	Multi taxa	Multi taxa	Yayasan Planet Indonesia
9	Nantu Forest Conservation Programme, Sulawesi, Indonesia	Indonesia	Multi taxa	Multi taxa	Yayasan Adudu Nantu International
10	Conservation of the Critically Endangered Rote Island Snake-Necked Turtle	Indonesia	Rote island snake-necked turtle	Reptile	Wildlife Conservation Society - Indonesia Program
11	Addressing Human Orangutan Conflict in Agricultural Landscape in Northern Sumatra in Collaboration with Local Communities and Key Stakeholders	Indonesia	Sumatran orangutan, Tapanuli orangutan	Mammal	Yayasan Orangutan Sumatera Lestari – Orangutan Information Centre
12	Primate Conservation Education Program on the Mentawai Islands, Indonesia	Indonesia	Multiple primate species	Mammal	Universitas Andalas
13	Saving Simeulue’s Critically Endangered Songbirds from the Brink of Extinction	Indonesia	Barusan shama Simeulue hill myna	Bird	Yayasan Ecosystem Impact
14	Begawan Gita: Bali Starling Conservation in the Melinggih Kelod Village by Begawan Foundation	Indonesia	Bali starling	Bird	Yayasan Begawan
15	IUCN SSC ASTSG In–person meeting	Indonesia	Multi taxa	Multi taxa	Yayasan Planet Indonesia
16	Saving Indonesia’s Wild Bird Populations	Indonesia	Multiple bird species	Bird	Yayasan Terbang Indonesia
17	Parrot Conservation Action in Maluku	Indonesia	Multiple bird species	Bird	Perkumpulan Konservasi Kakatua Indonesia

No.	Project Name	Country	Species	Taxon Group	Partner Organisation
18	Partner support of Cikananga Wildlife Center and its conservation activities	Indonesia	Multi taxa	Bird	Yayasan Cikananga Konservasi Terpadu
19	Disrupting illegal trade in bears and wildlife in Lao PDR	Lao PDR	Multiple Species	Mammal	Free the Bears Ltd
20	Saving Saola: Innovative Conservation in the Annamite Mountains	Lao PDR	Multi taxa	Mammal (primary), Multi taxa	Saola Foundation
21	Lao Youth For The Planet! Inspiring the next generation of Lao Nationals in biodiversity conservation and environmental protection	Lao PDR	No specific focal species	No specific focal taxa	Association Anoulak
22	Citizen Action for Tigers (CAT) Walk: engaging people to value and protect tigers and their habitat in Malaysia	Malaysia	Malayan tiger	Mammal	Wildlife Society of Selangor
23	Safeguarding Southeast Asia’s wildlife from illegal and unregulated trade	Malaysia	Multi taxa	Multi taxa	TRAFFIC International Southeast Asia
24	On the Road to Recovery: In- and Ex-Situ Conservation of <i>Batagur trivittata</i> in Myanmar	Myanmar	Burmese roofed turtle	Reptile	Wildlife Conservation Society
25	Recovering Burmese Star Tortoise (<i>Geochelone platynota</i>) populations at two wildlife sanctuaries in central Myanmar	Myanmar	Burmese star tortoise	Reptile	Wildlife Conservation Society
26	The West Visayas Species Recovery Project	Philippines	Multi taxa	Multi taxa	Talarak Foundation Inc.
27	Building a sustainable bio-cultural landscape for the Taobuid and the Tamaraw in Mts Iglit-Baco Natural Park, Mindoro, Philippines (year 2)	Philippines	Tamaraw	Mammal	d’Aboville Foundation and Demo Farm Inc
28	Safeguarding critically endangered endemics in Palawan – Phase 3	Philippines	Philippine pangolin & Palawan forest turtle	Mammal, Reptile	Katala Foundation Inc
29	Caring for Gigantes Wrinkled Frog at Wildlife in Need (WIN)	Philippines	Gigante wrinkled ground frog	Amphibian	Synchronicity Earth
30	Philippine Eagle Wildlife Loan Agreement	Philippines	Philippine eagle	Bird	Philippine Eagle Foundation
31	Tackling cross border bird trade: Indonesian parrots in the Philippines	Philippines	Multiple bird species	Bird	BirdLife International (Asia) Limited
32	World Wildlife Day Regional Youth Symposium 2024	Singapore	N/A	N/A	Garden City Fund
33	Every Singaporean a Naturalist (ESN)	Singapore	Multi taxa	Multi taxa	Nature Society Singapore
34	Outreach Activities for Our Wild Neighbours (OWN) Campaign	Singapore	Multi taxa	Multi taxa	Animal Concerns Research and Education Society
35	Investigating the life history and ecology of threatened songbirds in Singapore	Singapore	Straw-headed bulbul; Chestnut-winged babbler; Short-tailed babbler	Bird	Sin Yong Chee Keita
36	Population ecology and captive breeding for conservation of the coastal horseshoe crab (<i>Tachypleus gigas</i>) in Singapore	Singapore	Coastal horseshoe crab	Arthropod	Republic Polytechnic
37	Fishing sharks and rays in Singapore: recreational angler attitudes towards conservation and management of an imperilled group of organisms.	Singapore	Multiple sharks and rays	Fish	National University of Singapore

No.	Project Name	Country	Species	Taxon Group	Partner Organisation
38	Conservation genomics of critically endangered and endemic freshwater crabs in Singapore	Singapore	Multiple crab species	Arthropod	National University of Singapore
39	Flying syringes – Using mosquitos to surveil ‘zoo’-notic disease reservoirs in Mandai	Singapore	Multiple species	Insect	National University of Singapore
40	Vocal Communication in Long-Tailed Macaques & the Impact of Anthropogenic Noise	Singapore	Long-tailed macaque	Mammal	Sim Yue Ling
41	Improving Captive Animal Welfare in Southeast Asia through SEAZA Auditor Training and Accreditation	Thailand	Multi taxa	Multi taxa	Wild Welfare
42	Saving the Critically Endangered Vietnam Pheasant <i>Lophura edwardsi</i>	Vietnam	Vietnam pheasant	Bird	VinaConserv
43	Action for ASAP freshwater fishes	Regional	ASAP fishes	Fish	SHOAL
44	SHOAL/IUCN ASAP Freshwater Fish Programme Manager	Regional	ASAP fishes	Fish	SHOAL
45	Support for IUCN SSC ASTSG secretariat	Regional	Multiple bird species	Bird	IUCN SSC Asian Songbird Trade Specialist Group
46	Safeguarding Southeast Asia’s wildlife from illegal and unregulated trade	Regional	Multi taxa	Multi taxa	TRAFFIC International Southeast Asia
47	Strengthening the conservation of hornbills	Regional	Multiple hornbill species	Bird	Mabula Ground Hornbill Project
48	Escalating Profile, Resources, and Engagement for Effective Conservation Translocations	Global	Multi taxa	Multi taxa	Panthera Corporation
49	Guideline for responsible translocation of displaced organisms	Global	Multi taxa	Multi taxa	Wildlife Impact
50	Species360 Conservation Science Alliance Demographic Data Analytics	Global	Multi taxa	Multi taxa	Species360
51	Species360 Species Conservation Toolkit Initiative	Global	Multi taxa	Multi taxa	Species360
52	IUCN Chair Support 2025	Global	Multi taxa	Multi taxa	IUCN Species Survival Commission
53	Annual volunteer contribution (2024) to the EAZA Komodo Dragon (EEP) Field Conservation Programme: Komodo Survival Program	Global	Komodo dragon	Reptile	EAZA EEP
54	IUCN Membership 2025	Global	Multi taxa	Multi taxa	IUCN Species Survival Commission
55	Amphibian Ark 2024	Global	Multiple amphibian species	Amphibian	Amphibian Ark
56	Okapi Conservation Project – Greatest Needs (EEP)	Global	Okapi	Mammal	Wildlife Conservation Global
55	Support for Tasmanian Devils Conservation and Veterinary Operations (EEP)	Global	Tasmanian devil	Mammal	Department of Natural Resources and Environment Tasmania
56	Support for IUCN Hornbill Specialist Group secretariat	Global	Multiple bird species	Bird	IUCN Hornbill Specialist Group

Dr Sonja Luz

- Coordinator and vote-holder, IUCN membership
- Member, ASAP Governing Council
- Member, Southeast Asia Zoos and Aquariums Association (SEAZA) Conservation Committee
- Member, World Association of Zoos and Aquaria (WAZA) Conservation Committee
- Co-convener, IUCN SSC Conservation Planning Specialist Group (CPSG) Southeast Asia Resource Centre; Member, CPSG strategic committee
- Co-convener, IUCN SSC Centre for Species Survival Southeast Asia
- Co-chair, Singapore Pangolin Working Group
- European Association of Zoos and Aquaria (EAZA) Conservation Committee
- Member, IUCN SSC Conservation Translocation Specialist Group
- Board member, IUCN SSC Conservation Planning Specialist Group
- Member, IUCN SSC Asian Elephant Specialist Group
- Member, European Association for Zoo and Wildlife Medicine
- Member, IUCN SSC Boa and Python Specialist Group
- Member, IUCN SSC Crocodile Specialist Group
- Member, IUCN SSC Otter Specialist Group
- Member, Urban Wildlife Working Group (Singapore)
- Member, Otter Working Group (Singapore)
- Member, Singapore Freshwater Crab Working Group (Singapore)
- Member, Southeast Asia Climate and Nature-based Solutions (SCeNe) coalition steering committee
- Member, Raffles’ Banded Langur Working Group (Singapore)
- Member, Singapore Roundtable of Biodiversity

Dr Jessica Lee

- Coordinator, IUCN SSC Asian Songbird Trade Specialist Group
- Coordinator, IUCN SSC Helmeted Hornbill Working Group
- Steering Committee, IUCN SSC Hornbill Specialist Group
- Development Committee member, International Ornithological Union – Working Group of Asian Ornithology
- International Committee Member, International Wildlife Rehabilitation Council
- Advisory Panel, Asian Hornbill Safe Progam
- Member, Singapore Bird Red List Assessment Team
- Member, Seletar Airport Wildlife Management Committee
- Member, Changi Airport Wildlife Hazard Management Committee
- Member, Straw-headed Bulbul Working Group (Singapore)
- Expert, Birdlife Red List
- Member, Urban Wildlife Working Group (Singapore)
- Editorial board member, Hornbill Natural History and Conservation
- Member, Vietnam Pheasant Recovery Team
- Advisory board member, Bali Myna International

Roopali Raghavan

- Member, IUCN SSC Conservation Planning Specialist Group (CPSG)
- Co-convener, IUCN SSC CPSG Southeast Asia Regional Resource Centre
- Member, Southeast Asia Zoos and Aquariums Association (SEAZA) Conservation Committee
- Member, Singapore Freshwater Crab Working Group (Singapore)
- Member, Raffles' Banded Langur Working Group (Singapore)
- Member, Singapore Pangolin Working Group
- Member, Long-tailed Macaque Working Group (Singapore)
- Member, Urban Wildlife Working Group

Dr Charlene Yeong

- Member, Zoo and Aquarium Association (ZAA) Vets Specialist Advisory Group
- Chair, Urban Wildlife Working Group (Singapore)
- Co-chair, Singapore Pangolin Working Group
- Member, Otter Working Group (Singapore)
- Member, IUCN SSC Pangolin Specialist Group
- Member, International Wildlife Rehabilitation Council
- Core Committee Member, Our Wild Neighbours

Ho Li Ling

- Member, Singapore Pangolin Working Group

Dr Andie Ang

- Chairperson, Raffles' Banded Langur Working Group, Singapore
- Co-Chairperson, Long-tailed Macaque Working Group, Singapore
- Advisory Committee Member, SG Eco Fund, Ministry of Sustainability and the Environment, Singapore
- President, Jane Goodall Institute (Singapore)
- Honorary Research Affiliate, Lee Kong Chian Natural History Museum (Singapore)
- Committee Member, Vertebrate Study Group, Nature Society (Singapore)
- Deputy Chair, IUCN SSC Primate Specialist Group (Global)
- Co-Vice Chair, IUCN SSC Primate Specialist Group (South and Southeast Asia)
- Member, IUCN SSC Primate Specialist Group (Section for Human-Primate Interactions)
- Member, Malaysian Nature Society (Johor Branch)
- Vice-President, Southeast Asian Biodiversity Society (Singapore)
- Founder, Primate Watching Online Resource



Known locally as “Owa Jawa”, the endangered Javan gibbon swings high in the forest canopies of Central Java. Since 2008, our partner SwaraOwa has spearheaded community-led initiatives like the Coffee and Primate Conservation Project, where sustainable products like Owa coffee help protect the gibbon’s habitat while supporting local livelihoods.

Photo: SwaraOwa

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Wild straw-headed bulbuls and fledglings observed in the Mandai Wildlife Reserve. In 2024, Mandai Nature recorded two successful clutches hatched within the same family, a hopeful sign for this globally critically endangered species.

Photo: Mandai Wildlife Group

