



ABOUTAPOPU SAVES LIVES

Founded on the belief that unconventional challenges require unconventional tools, APOPO pioneered the use of scent-detection animals to tackle some of the world's most complex humanitarian problems. From detecting landmines and tuberculosis to disrupting wildlife trafficking and accelerating disaster response, our detection animals are proving that innovation, when paired with evidence and integrity, can transform systems.

By harnessing the powerful sense of smell in African giant pouched rats and Belgian Malinois dogs, APOPO has developed safe, efficient, and cost-effective methods of landmine clearance that helps restore land and livelihoods in post-conflict regions.

APOPO also applies its scent detection expertise to global health by training rats to detect tuberculosis (TB), the world's deadliest infectious disease. Our TB detection rats screen samples quickly and accurately, helping APOPO shorten the time between detection and treatment in communities where access to diagnostics remains limited.

Innovation remains central to APOPO's mission. From wildlife detection and disaster search and rescue to new training technologies and scent-based research, APOPO continues to expand the boundaries of what is possible in animal detection systems.

ABOUT APOPO

2024 also marked significant strides in environmental restoration through our HeroTREEs program, which promotes reforestation, climate-smart agriculture, and sustainable land use. With the expansion of trainings, demonstration farms, and the launch of the Syntropic Agroforestry Innovation Accelerator, a regional hub for regenerative land-use systems and capacity building, this initiative is helping restore degraded ecosystems while supporting local farmers.

All of this is supported by a robust Information Management System [IMS] developed at APOPO, that turns raw data into actionable insight. Our integrated systems support everything from operational planning and performance monitoring to animal welfare tracking and environmental impact assessment, ensuring that our work is guided by evidence and accountability.

The support that drives APOPO's mission comes from an extensive network of international partners and donors, including teams based in Switzerland, the United States, and the United Kingdom. Together, these efforts advance APOPO's vision of creating a better world as a global leader in scent detection animals—enabling safer, healthier, and more resilient communities.





CORE VALUES



Demonstrating and promoting high standards in research, design, training, and implementation of scent detection animals technology.

> INNOVATION

Pioneering creative research and innovative solutions within a participatory learning culture.

SOCIAL TRANSFORMATION

Developing skills, creating jobs, improving socio-economic and environmental conditions, releasing land for development, and combating public health issues.

DIVERSITY

Embracing diversity in all facets of the organization with respect to age, gender, religion, sexual orientation, physical abilities, nationality, or ethnicity.

SOLIDARITY

Committing to the common good and shared responsibility toward the protection of the people, communities, and the planet.

ANIMAL WELFARE

Demonstrating and promoting high standards in humane training and welfare for our animal partners.

INTRODUCTION

UNWAVERING IN UNCERTAINTY: APOPO IN 2025 AND BEYOND

Christophe Cox, CEO APOPO

2024 has been a year of both immense challenge and outstanding achievement for APOPO. Despite global uncertainty, our mission to protect and empower communities through innovative humanitarian action has not wavered.

Our **Mine Action** teams have demonstrated exceptional performance across **Cambodia, Angola, Sudan, Azerbaijan, Senegal, Zimbabwe,** and beyond. Notably, we successfully launched and accredited our **Technical Survey Dogs** in **Ukraine** — a milestone that marks a new chapter in our operational excellence. In the fight against **tuberculosis**, our teams in **Tanzania** and **Ethiopia** delivered strong results once again. Our **HeroRATs** achieved a remarkable breakthrough, detecting significantly more TB cases, even in patients who had tested negative with PCR-based GeneXpert. This finding reinforces the vital role of our approach in saving lives.

Our innovation department made great strides as well. **Wildlife Detection Rats** successfully completed promising trials in the port of Dar es Salaam, and our **Search and Rescue project** advanced with a strategic move to **Turkey**. Meanwhile, our commitment to environmental stewardship flourished under the

HeroTREEs initiative, which has now over **110,000** trees growing, an inspiring example of how APOPO links humanitarian work with ecological restoration.

Behind the scenes, our support teams have continued to innovate, optimize, and professionalize. From improving internal systems to strengthening our global outreach, their efforts are increasing efficiency and amplifying our voice worldwide.

None of this would be possible without our dedicated staff, valued partners, institutional donors, and the public, whose support, especially during economically trying times, has been extraordinary.

In a world where global military spending continues to rise and aid budgets decline, and with some European nations withdrawing from the landmine ban treaty, APOPO remains steadfast. We will not compromise on our mission or our principles.

To all who stand with us: thank you. Your belief in our work empowers us to face the future with determination, compassion, and hope.



169,884

Landmines and other explosives destroyed



642,988

Patients screened for TB



2,433,704

People impacted by APOPO's work



33,135

Additional TB cases detected



122,381,665 m²

Safe land given back to communities



332,890

Potential infections stopped



Over **111,000** trees successfully growing since 2017





MINEACTION

Michael Heiman HEAD OF **PROGRAMS** MINE ACTION

A Persistent Global Threat

The legacy of landmines and other explosive remnants of war continues to endanger lives long after conflicts have ended. Despite decades of clearance efforts, an estimated 60 million people still live under the threat of landmine contamination. These remnants of war not only cause devastating accidents but also prevent communities from accessing land for agriculture, infrastructure, and development.

According to the Landmine Monitor, in 2023, at least 5,757 people were killed or injured by landmines and other explosives worldwide. This high number is mainly due to the increase in armed conflicts and the growing use of improvised landmines. A staggering 84% of these casualties were civilians, and children accounted for over one third of those victims.





■ MINE ACTION

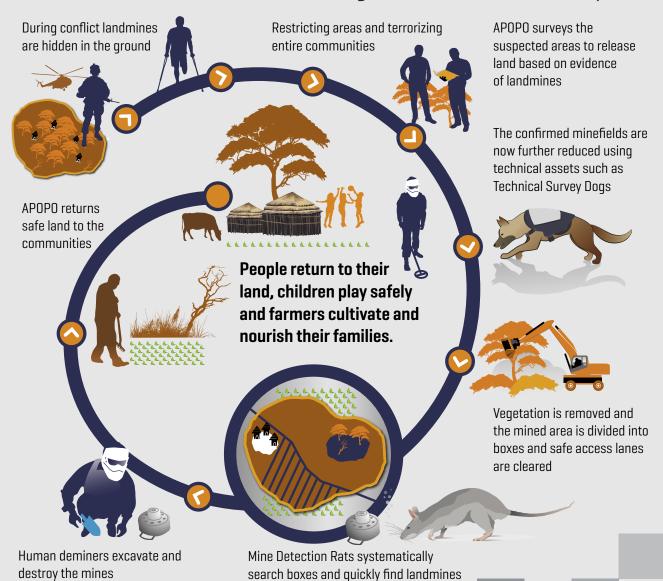
To maximize the efficiency of clearance operations, APOPO integrates animal detection systems with conventional demining methods. Our Hero-RATs (Mine Detection Rats) and HeroDOGs (Technical Survey Dogs) are trained to detect the scent of explosives, enabling them to quickly and accurately locate landmines without being distracted by harmless scrap metal — a common issue for metal detectors used by human deminers.

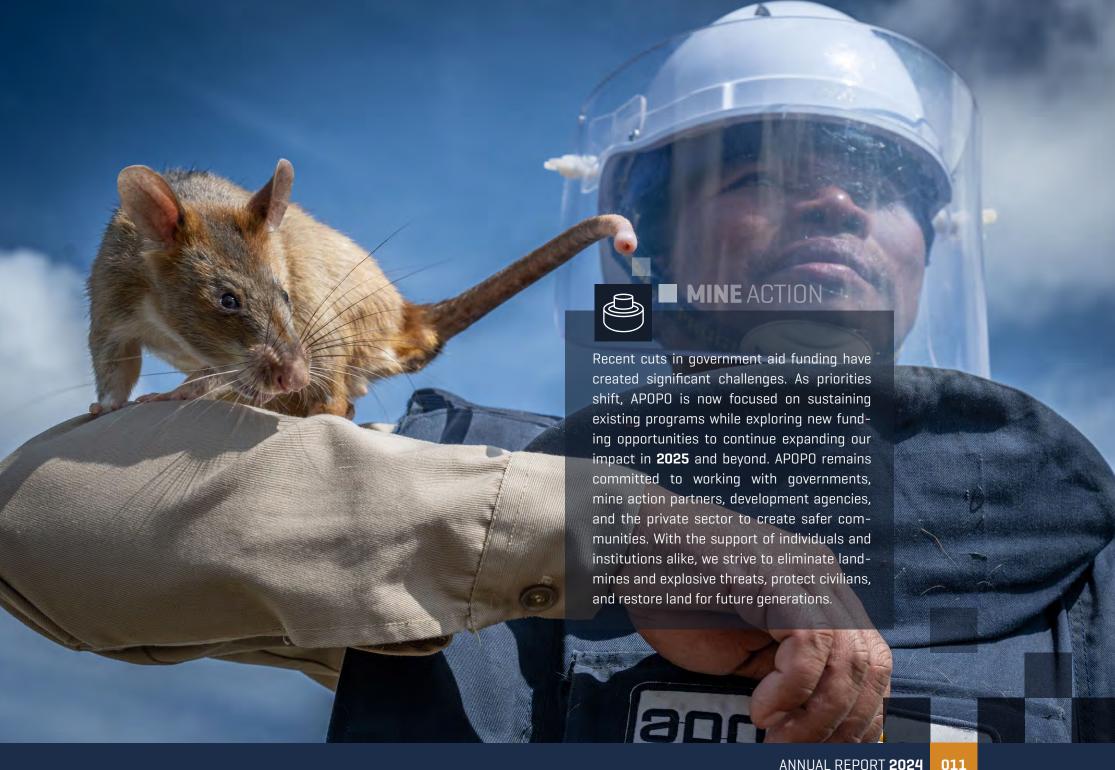
These trained animals significantly speed up the clearance process — in many cases doubling or even tripling operational efficiency compared to traditional methods alone. Their contributions are especially vital in areas with dense contamination and limited resources. Our animals are not only effective but also well cared for. They receive regular veterinary checkups, a nutritious diet, enrichment, and daily training sessions that provide both exercise and mental stimulation. Their welfare is a core value and priority.

Since its inception, APOPO has positively impacted the lives of over 2.2 million people across its areas of operation — a testament to the dedication of our staff and the generous support of our donors, partners, and the public.



Integration of animal detection systems







THE APOPO MINE ACTION PROGRAMS ARE MADE POSSIBLE BY OUR PARTNERS AND DONORS































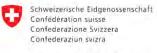












Swiss Agency for Development and Cooperation SDC





























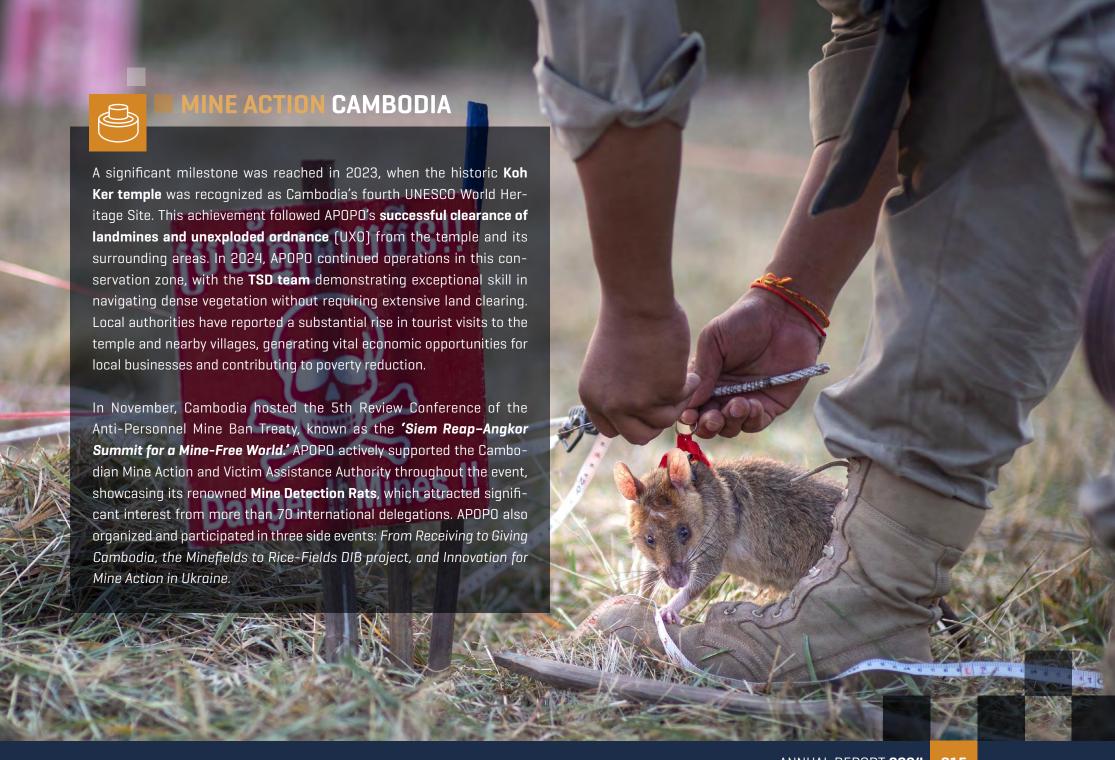
CAMBODIA

Michael Raine PROGRAM MANAGER

A vital role

In 2024, APOPO continued to play a vital role in Cambodia's national effort to become mine-free, building on the successes of previous years. APOPO deployed its Mine Detection Rat (MDR), and Technical Survey Dog (TSD) teams to deliver safe land back to vulnerable communities, prioritizing areas where clearance brings direct and tangible benefits - such as farmland, schools, heritage sites, and community infrastructure.

APOPO continued its minefield survey and clearance operations in collaboration with the Cambodian Mine Action Center [CMAC] in Siem Reap and near the Cambodian-Thai border in Preah Vihear, as well as with the Mines Advisory Group [MAG] in Battambang and Ratanakiri provinces.









IMPACT IN 2024

Landmines and explosives found and destroyed 678

Cluster munitions found and destroyed 143

Safe land given back to communities 12,980,497 m²

People benefitting from our work 3,819

People attending Mine Risk Education 9,078

Mine Victims who received treatment 296









MINE ACTION UKRAINE

To prepare the TSD teams in Ukraine, APOPO trained six handlers in Cambodia between January and April, followed by another ten handlers in Ukraine between July and September.

APOPO, in **partnership with MAG**, secured funding from the **EU** and **UNDP** for four TSD teams - doubling the planned initial capacity. Additional support from the **Government of Flanders** was instrumental

in launching the program.

In September, APOPO's dogs underwent practical certification in Krasylivka and received official clearance to operate both **MDD and TSD teams** in Ukraine by 10 October. In November, three teams were deployed to Stepova Dolyna in Mykolaiv Oblast near the Kherson border. However, operations were paused for the winter in December due to severe weather.

Teams resume work in early 2025 following refresher training.

In 2025, APOPO will deploy **two additional TSD teams** under new donors, expanding capacity to six teams [24 handlers and 48 dogs], continuing operations in partnership with MAG in Kharkiv and Mykolaiv Oblasts, according to national prioritization.





Fighting back

Training to become an APOPO dog handler has changed my life. Even after long, exhausting days, I feel truly happy knowing we are fighting back against the danger that threatens my home. The dogs are incredible partners, their powerful noses are our weapon against the weapon. Every day, I grow closer to my dog, and every day, I believe even more in the work we are doing for our future."

Natalia, APOPO Dog Handler, Ukraine





MINE ACTION ANGOLA

Notable events in 2024 included a syntropic agroforestry training workshop, visits from APOPO's Head of Mine Action Programs, and delegations from the **Belgian Ministry of Foreign Affairs, ANAM**, and the **Japanese Embassy**. A Japan-funded project concluded with a formal handover ceremony in July. In November, Program Manager Manuel Agostinho participated in a national Mine Action coordination meeting led by ANAM. It was confirmed that Angola will submit **a five-year extension request (2026–2030)** for its landmine clearance obligations. Looking ahead to 2025, the program will maintain its current structure and aims to clear at least **1 million m² of land** across five municipalities, directly benefiting around 41,000 people. At least 20 EORE sessions are planned to reach 10,000 more people. APOPO remains committed to its partnerships and continuing progress toward a landmine-free Angola.

IMPACT IN 2024

	Landmines and other ERW destroyed	267
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Small arms and ammunition 3,339

Safe land given back to communities 1,026,074 m²

People benefitting from our work 11,400

People attended EO Risk Education 9,526









MINE ACTION ZIMBABWE

CORSAN MINEFIELD

Clearance efforts in 2024 focused on the CORSAN minefield within the Sengwe Wildlife Corridor, a crucial link between Gonarezhou National Park (Zimbabwe), Limpopo National Park (Mozambique), and Kruger National Park (South Africa). This minefield, which spans 37 kilometers and contains thousands of R2M2 anti-personnel mines, blocks wildlife migration and endangers local communities. APOPO cleared 4,041 landmines, booster charges, and UXOs in this area, making the land safer for both people and animals. Clearance operations combined manual methods with advanced detection technology.

This work was generously supported by the **U.S.** and **Swiss Governments**. In particular, since October 2023, the **U.S. Department of Defense's Humanitarian Demining R&D Program** has contributed to

Ana Larry Zimbabwe

Name of the Contract of Contract o

improving detection tools and information systems, resulting in increased efficiency and reduced time spent on follow-up drills in 2024.





EXPLOSIVE ORDNANCE RISK EDUCATION

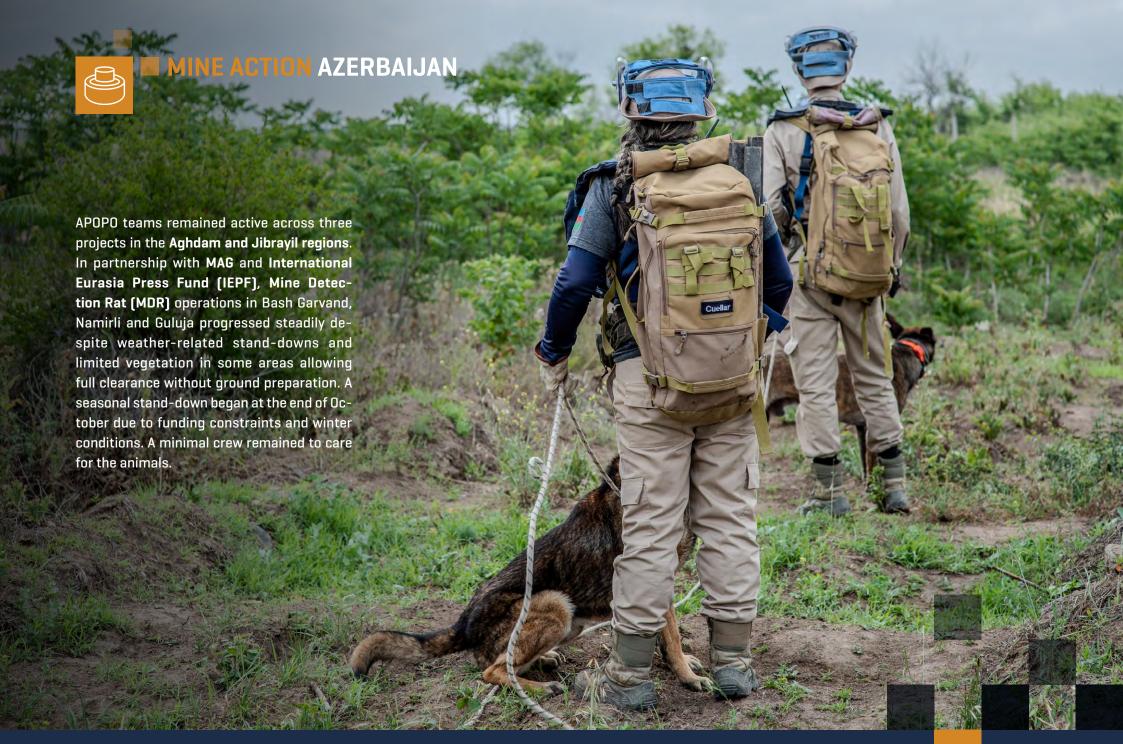
APOPO also continued delivering **EORE sessions**, reaching 2,918 people — of which 2,362 were children - through 21 sessions in primary schools and local markets. These sessions play a **crucial role in preventing accidents** by educating communities about the risks of landmines and safe behaviors.

The year was both productive and safe, with no incidents reported. **APOPO** completed 72% of the Sango Border task and successfully handed over 10 cleared sectors to the Zimbabwe Mine Action Centre. Approximately 450,000 m² remain, which could be cleared by the end of 2027, contingent on maintaining current funding and operational capacity.

Landmines and other ERW destroyed 4,041 Safe land given back to communities 1,386,581 m² People benefitting from our work 2,611 People attending risk education 2.918









MINE ACTION AZERBAIJAN

MDR and TSD continued to play a vital role in technical survey and landmine clearance tasks, particularly in areas with low vegetation. APOPO operated with 40 detection animals and 30 staff in Azerbaijan, maintaining indoor training and care for the rats during the winter months.

In 2024, **1,649,102** m² of land was cleared across all projects with 3 landmines, 10 cluster munitions and 39 other explosive remnants of war found. The program continues to maintain a strong commitment to safety, collaboration, and the welfare of its animal teams. Despite solid operational progress the program faced notable funding challenges in late 2024. While proposals for continued support were submitted, additional funding will be essential to sustain and expand APOPO's humanitarian mine action efforts in Azerbaijan in 2025.

IMPACT IN 2024

Landmines and explosives destroyed

52

Safe land given back to communities

1,649,102 m²





APOPO DOGS

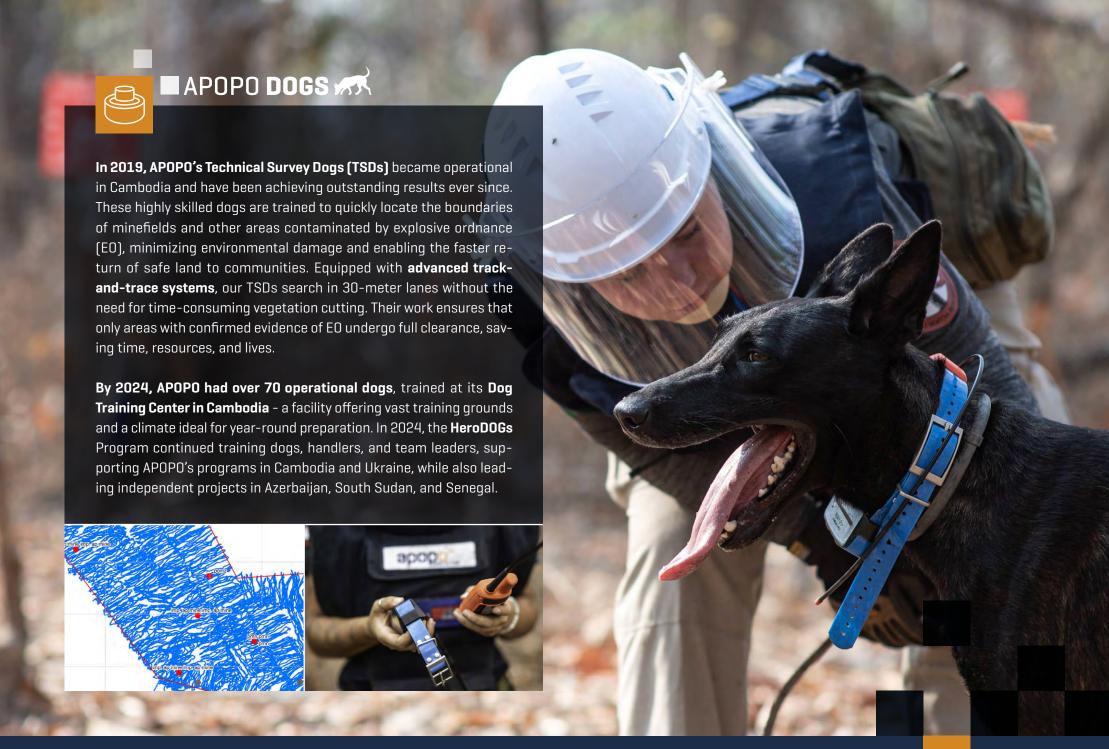
The largest number of mine detection dogs in the sector

Mikael Bold
PROGRAM MANAGER
Ibrahim Tinjak
HEAD DOG TRAINER
Chiara Faini
DOGS SUPPORT MANAGER

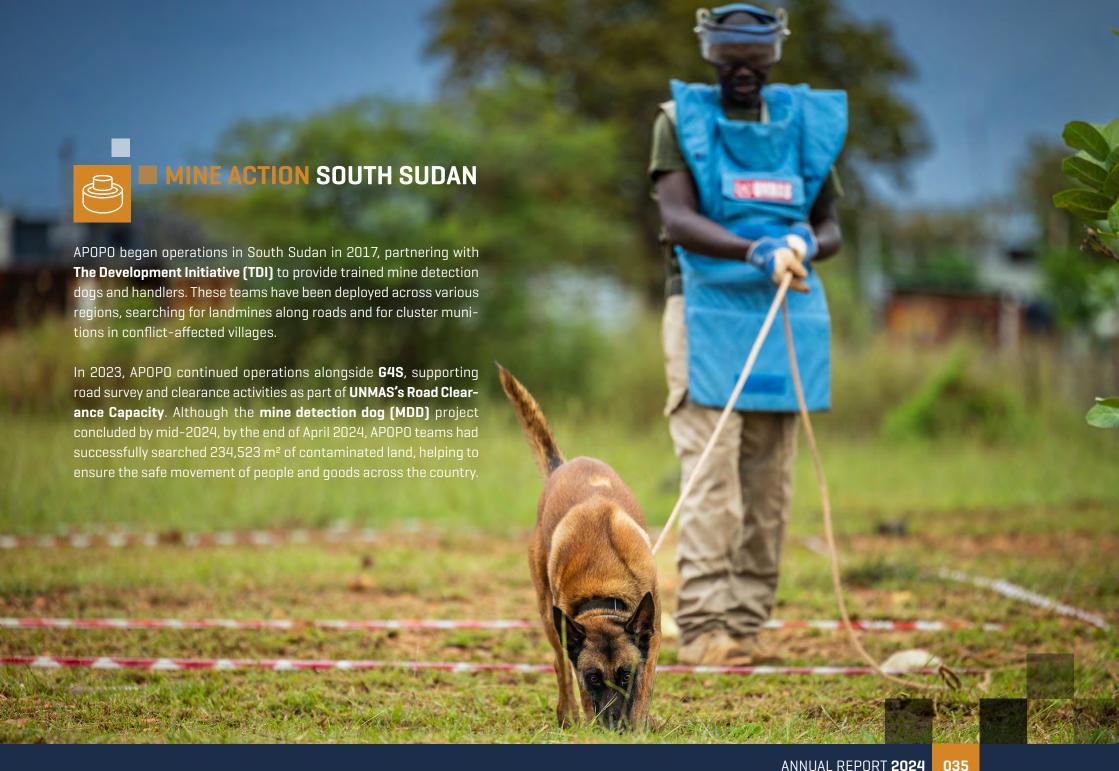
Beyond running its own programs, APOPO is a global leader in training and providing mine detection dogs to organizations worldwide. By delivering high-performance animal detection teams, APOPO helps partners address Mine Action challenges and enhance the cost-efficiency of land release operations.

Since launching its dog training program for specialized technical survey roles in 2017, APOPO has rapidly expanded to operate the largest number of mine detection dogs in the sector. APOPO also supports national authorities in strengthening animal detection standards and plays a key advisory role in shaping animal detection systems (ADS) guidelines for the mine action sector.

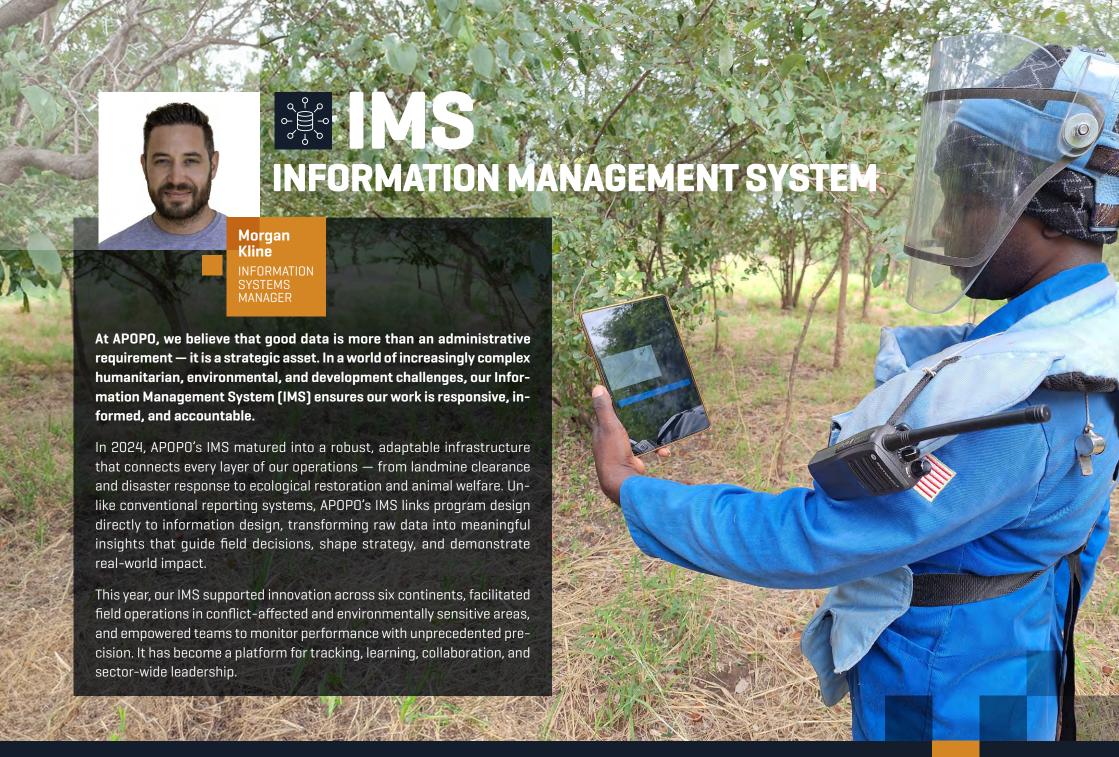












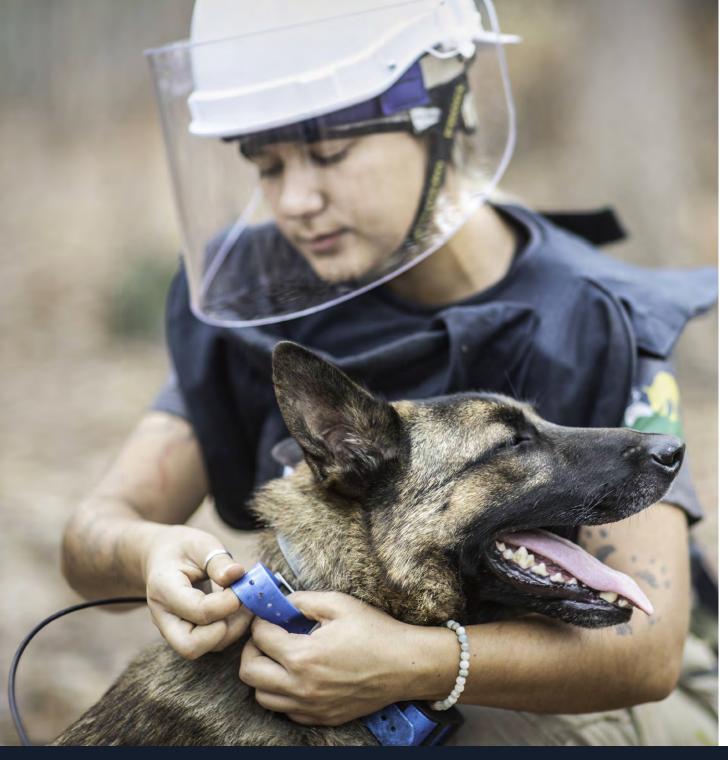




INNOVATIVE DEPLOYMENTS AND GLOBAL EXPANSION

In 2024, APOPO launched new programs in **Ukraine** and **Argentina**, each supported by context-specific information systems. In Ukraine, when GPS jamming disrupted operations, our IM team developed a GPS-independent, offline box-grid reporting system using ESRI's FieldMaps. This allowed precise, structured reporting in even the most disrupted environments.

Meanwhile, in **Turkey**, APOPO began laying the groundwork for an Information Management system to support our upcoming **Search and Rescue** program — the first time APOPO's IM capabilities are being applied to disaster response. Designed for real-time coordination, responder tracking, and needs-based data visualization, the system is being built to ensure IM readiness from day one.





CHAMPIONING ANIMAL WELFARE THROUGH INTEGRATED MONITORING

Animal welfare is core to APOPO's values. Our IMS embeds this commitment deeply into operations. Each **HeroDOG** is assigned a QR-coded ID card linked to a digital health profile, recording veterinary data, training performance, and operational outcomes.

Webhooks and automated alerts notify field teams when a medical check-up, vaccine, or rest period is due — ensuring consistency across all programs. This infrastructure supports not just ethical standards but also operational reliability.

In 2024, dog movement tracking received a major boost via automated **ModelBuilder** workflows that process GPS logs and apply scent detection buffers — visualizing search coverage in GIS environments with scientific rigor.



HIGH-RESOLUTION CLEARANCE DATA: A NEW GLOBAL STANDARD

One of APOPO's most significant achievements in 2024 was launching a new **Clearance Data Model** in **Zimbabwe**, developed with Cranfield University. This system offers unprecedented granularity in mine action operations. Key features include:

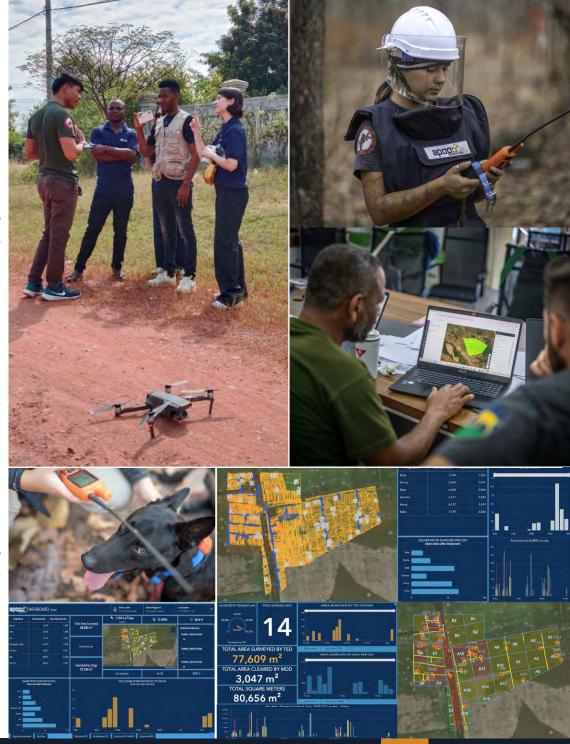
- Over 60 data points collected per explosive device
- Barcode-based tracking from detection to demolition
- Lane-by-lane reporting using a single-form-per-activity model
- Before-and-after photographic evidence linked to each item

The system enables total traceability, delivering powerful insights to field managers and strategic planners. Patterns in device types, depth, and clearance efficiency are now fully visualized and actionable at scale.

FROM MINEFIELDS TO RICEFIELDS: DATA-DRIVEN DEVELOPMENT

In **Cambodia**, the IMS was adapted for a **Development Impact Bond (DIB)** transforming cleared minefields into rice-growing land. Farmers were registered with **Global Unique Identifiers (GUIDs)** and assigned QR-coded ID cards. Their full journey — from land clearance to training, harvest monitoring, and income tracking — was monitored in real time.

To optimize operations, the IM team deployed **drones** for aerial mapping, created 3D terrain models from open-source elevation data, and integrated this into daily planning. The result: improved resource allocation, reduced redundancy, and a stronger link between clearance and economic recovery.





INTERNAL INNOVATION AND GLOBAL LEADERSHIP

In 2024, APOPO's IM team led advancements both internally and across the sector. Throughout the year we:

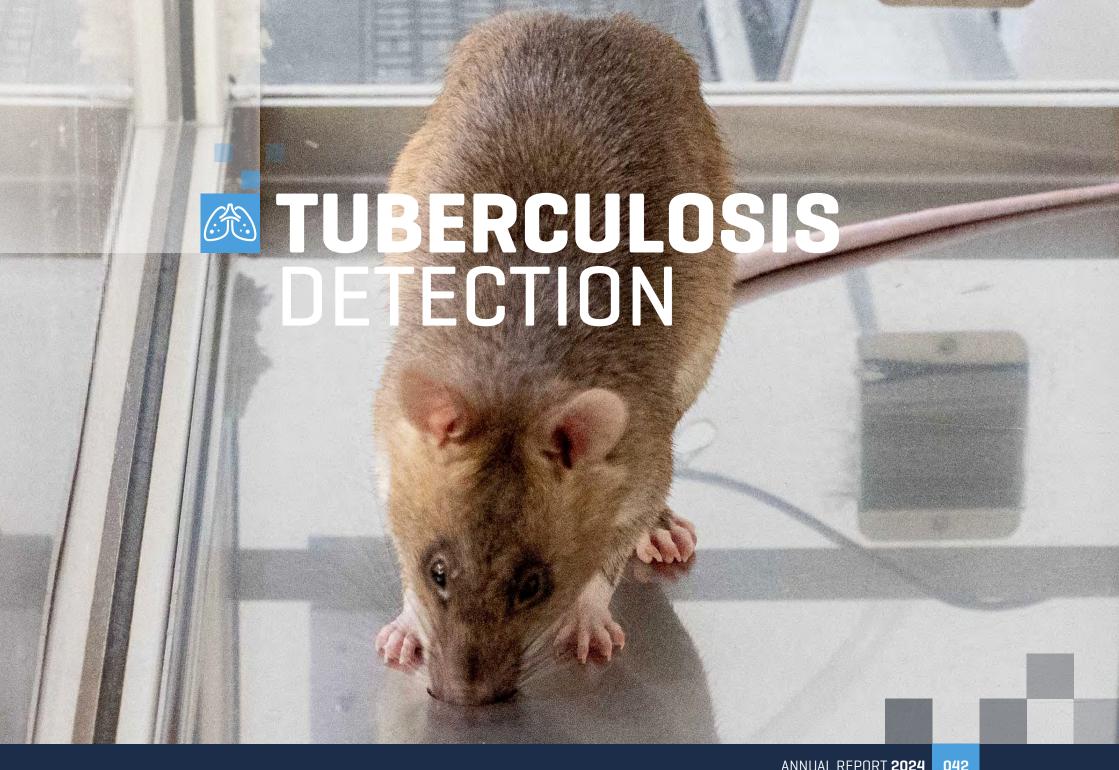
- Presented at international forums, including the Siem Reap-Angkor Summit and the 28th International Meeting of Mine Action Directors
- Hosted our first APOPO IM Workshop with IM Officers from all seven country programs for joint training and planning
- Deployed a multi-tiered Quality Management System (QMS) assigning corrective actions and follow-ups
- Integrated GitHub Co-Pilot Al into our coding workflows, automating legacy data consolidation and streamlining reporting

We maintain rigorous documentation using Draw.io for template mapping and GitHub for changelogs — ensuring every system update is traceable and replicable.

THE ROAD AHEAD

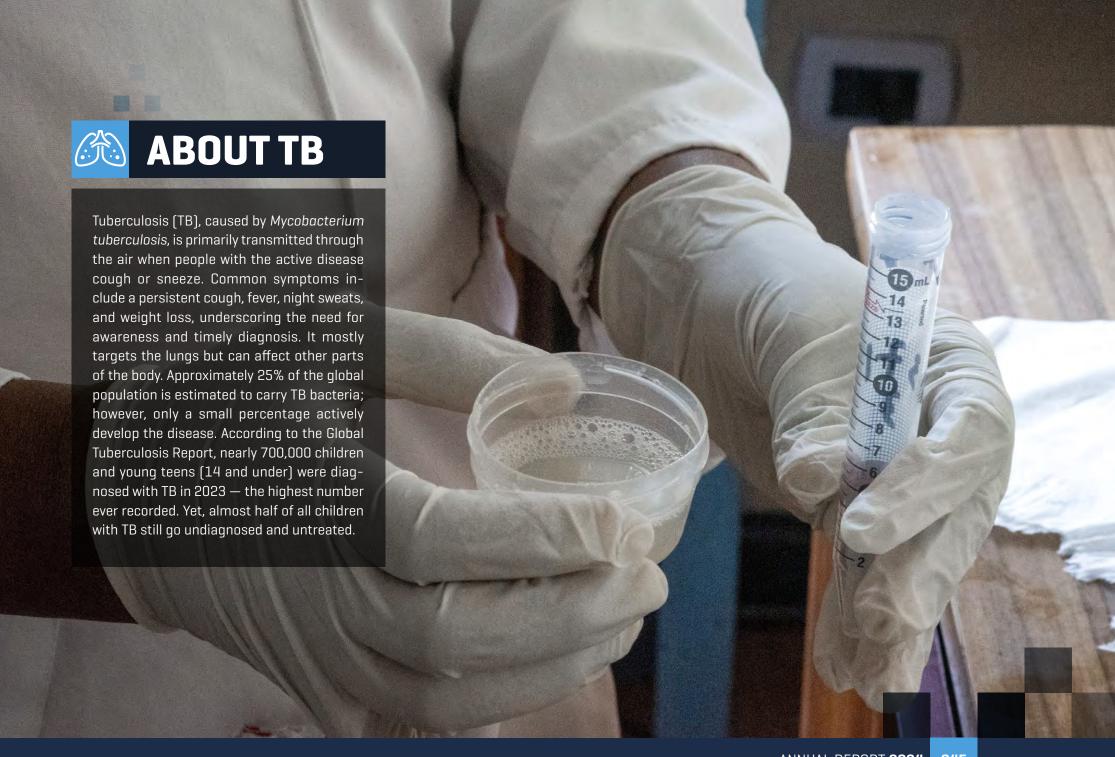
As we scale across mine action, disaster response, and ecological restoration, APOPO's IMS remains a central pillar — not just for data collection, but for **insight, action,** and **impact**. We remain committed to **high-quality, purpose-built systems** that strengthen effectiveness, accountability, and sustainability. Whether supporting clearance teams, tracking reforestation, or launching new initiatives like search and rescue, our IM team will continue to lead innovation and integration across all operations.





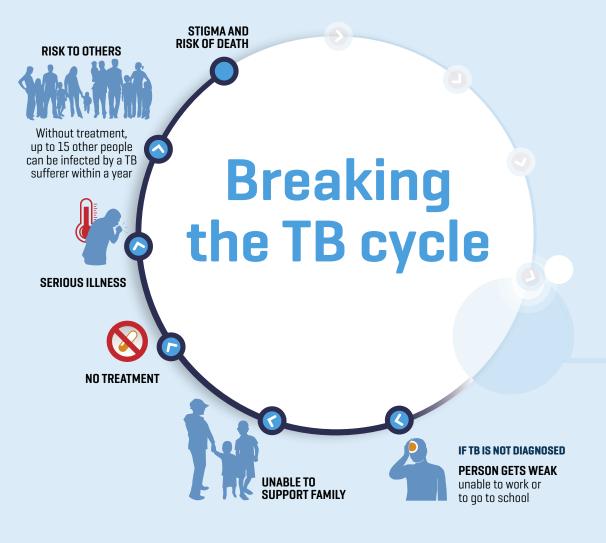








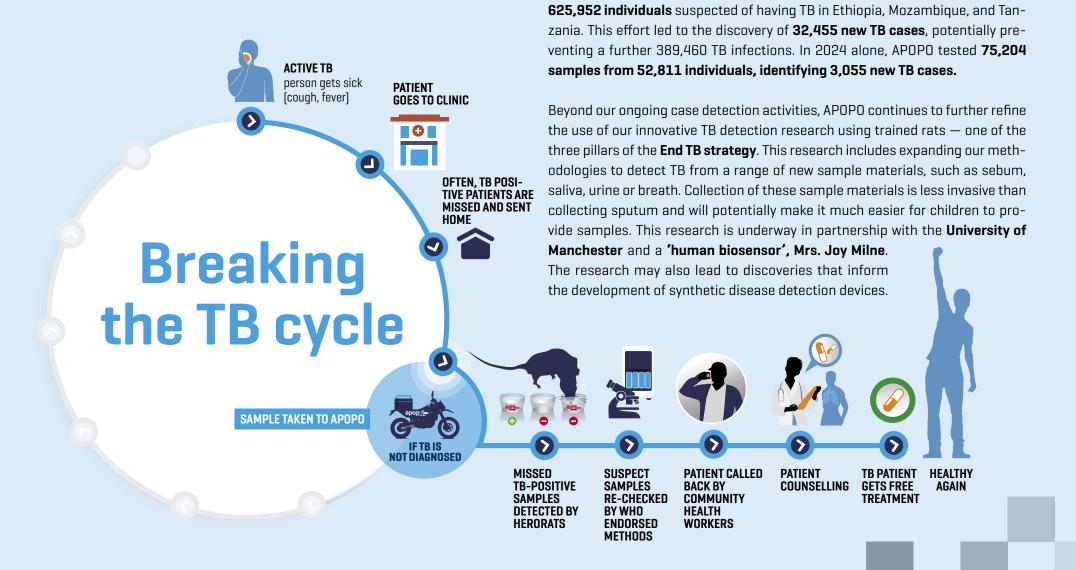
TUBERCULOSIS DETECTION



OVERCOMING TB'S HURDLES

In Ethiopia and Tanzania, TB's decline of just 5% year-on-year is a significant challenge in achieving the END TB targets. APOPO's collaboration with local health systems and over **140 partner clinics** across Ethiopia and Tanzania, intends to tackle the issue of the 'missed' patients identified by the WHO, who account for around a quarter of infected people. Economic and social barriers, along with limited diagnostic capabilities at clinics, are limiting factors for individuals who remain untested or their cases unreported, resulting in **2.7 million people globally remaining undiagnosed and untreated for TB in 2023.**





OUR IMPACT

African giant pouched rats (*Cricetomys ansorgei*), are trained by APOPO to detect the odor of TB in human sputum samples. By the end of 2024, APOPO's TB detection initiative had screened a total of **1,029,673 sputum samples from**

FUTURE ASPIRATIONS

Going forward, APOPO hopes to use its innovation in other parts of the world, particularly those among the 30 high TB-burden countries. APOPO-trained rats can screen **100 samples in just 20 minutes**. This would take a lab technician in a partner clinic up to 4 days. Therefore, APOPO's fast and costeffective TB detection technology has the potential to contribute to TB elimination goals and global END TB strategies. We aspire to expand our technologies in northern Tanzania, where recorded TB rates are above the national average in Tanzania.

The added value of APOPO's TB detection rats is well demonstrated in the context of sputum-smear microscopy. We have observed that the two countries where APOPO currently operates are now shifting from sputum-smear microscopy to molecular testing, such as **Xpert MTB/RIF or Ultra**.

In 2024, the overall **additional case finding was 48%** - which is above the annual average of 40% previously observed. Additional case finding was 44% at Xpert testing DOT facilities and 59% at smear sites. Recent data also showed that DOTS clinics that shifted from smear to Xpert Ultra were more likely to benefit from TB case finding among TB patients with lower bacillary loads.

APOPO now aspires to further evaluate the sensitivity and specificity of rats against the latest molecular testing, which are Xpert MTB/RIF Ultra and Truenat.





TANZANIA

Dr. Joseph Soka PROGRAM MANAGER

In 2024, a total of 42,502 sputum samples were tested from 34,888 individuals suspected of having TB. Through the use of detection rats, an additional 2,554 TB cases that were initially missed by health facilities were identified. This resulted in a 53% increase in case detection across 81 clinics from where APOPO currently collects samples. The results from the rats were confirmed using approved diagnostic methods, including concentrated sputum-smear microscopy or GeneXpert, before being reported to hospitals and clinics for patient follow-up and treatment initiation. As a result, 85% of the identified patients were placed on TB treatment.



TB DETECTION TANZANIA

APOPO TB Tanzania established a formal partnership with **Kibong'oto Infectious Disease Hospital** through a **Memorandum of Understanding** to expand its operations into northern Tanzania. This initiative will involve working with over 40 health facilities across four additional regions: Kilimanjaro, Arusha, Manyara, and Tanga. Additionally, APOPO has entered into an official collaboration with the **President's Office, Regional Administration and Local Government (PORALG)**, which oversees all primary health facilities in Tanzania.

Furthermore, in 2024, APOPO's rat detection results were integrated into **Tanzania's Health Management Information System** via the **electronic TB and Leprosy (eTL) platform**. This integration enhances the visibility of APOPO's findings among global TB implementation partners.

■ Samples evaluated 42,502 ■ Patients evaluated 34,888 ■ Additional patients diagnosed 2,554 ■ % increase in detection rate 53%





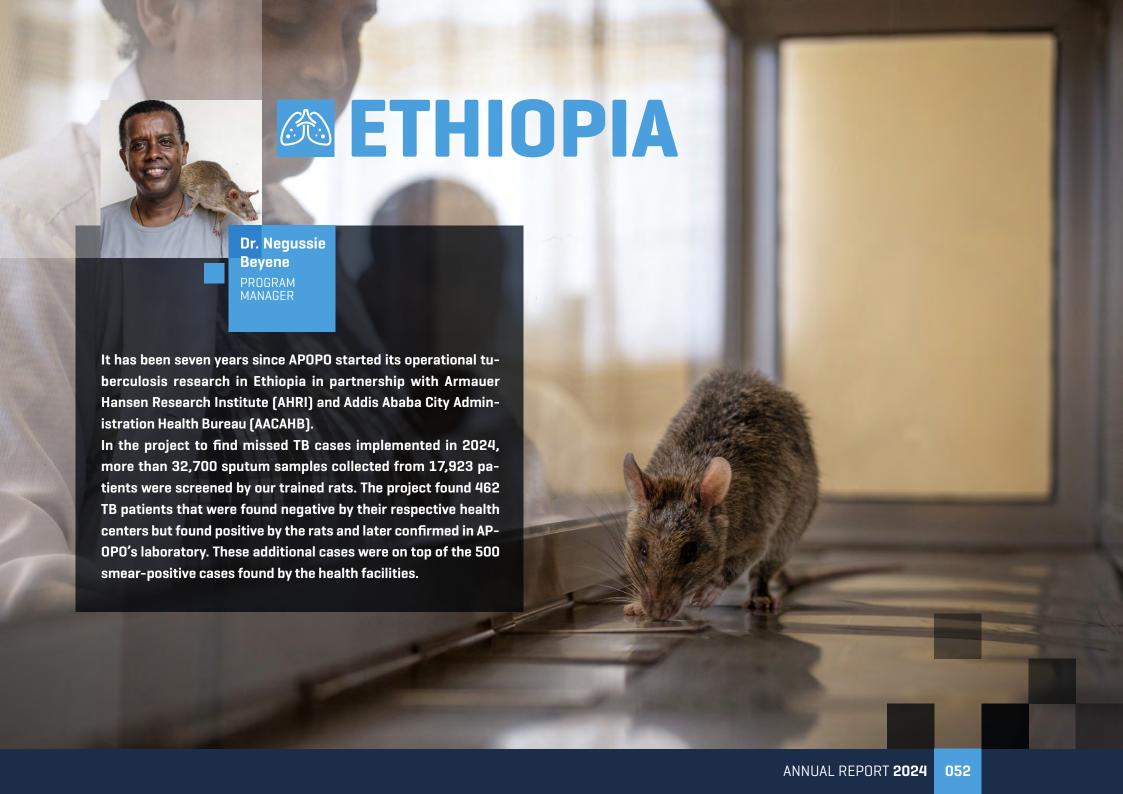
Treatment

I never could have imagined that rats could help save my life — but thanks to APOPO, they helped find what my clinic couldn't. And I was able to begin the treatment I needed. They gave me hope when I had none left."

Kepra, 66 year old Retired Soldier











TB DETECTION ETHIOPIA

In addition to those results, 1,071 people in the high risk-populations at police stations, oversea returnees camps, and temporary shelters for the vulnerable were tested for TB and 26 were positive, among which one which was rifampicin-resistant. APOPO established itself as the team to count on whenever an urgent TB mass screening is required. Accordingly, the AACAHB and the Federal Prison Commission called on the team to conduct mass screening at Qaliti Federal Prison in which 2,224 inmates and staff were screened. There were five TB cases identified, AACAHB and **REACH Ethiopia** also requested the team to participate in the mass screening of TB at selected Key and Vulnerable Populations in a weeklong campaign. More than **2,050 people** were screened and 26 TB cases were found. All the TB cases duly started treatment. Overall, the Ethiopian program found 605 TB cases in 2024.

■ IMPACT IN 2024 TB samples evaluated 32,702 **Patients evaluated** 17,923 Additional patients diagnosed 462 % increase in case detection 92%





THE APOPO TB RESEARCH PROGRAMS ARE MADE POSSIBLE BY OUR PARTNERS AND DONORS.



























































TB Detection Rats

Eighteen rats finalized training to pass rigorous internal testing and accreditation to become TB detection rats in 2024. Preliminary results from ongoing research aimed at developing new deployment methods promise to bolster the life-saving impact of TB detection rats. **The Training Center** also supported the **retirement of Carolina**, a TB detection rat stationed at APO-PO's program in Dar es Salaam, who, over the course of nearly **7 working years, screened 209,116 samples** from presumptive TB patients to help identify **3,126 patients** initially missed by partnering health clinics. She has comfortably settled into the retirement community stationed at the Training Center and continues to receive expert care, treatment, and attention.

Breeding

The breeding program saw **the birth of 58 rat pups** successfully reared and assigned to training programs to become either a mine detection or TB detection rat or to detect new targets under development by APOPO's Innovation Department.

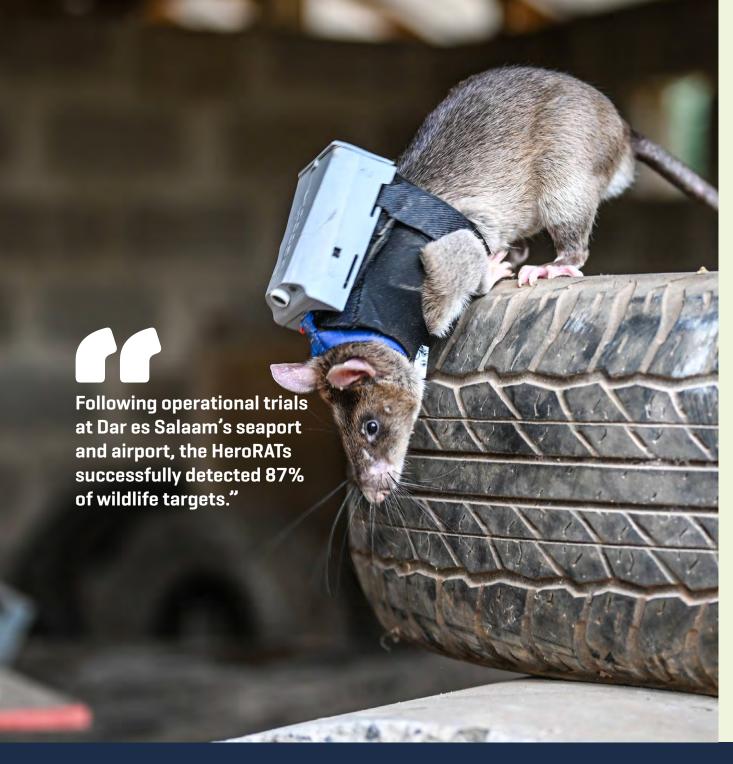














INNOVATION

In 2024, we achieved key milestones in our flagship projects: **Search & Rescue and Wildlife Detection**. As part of our Search & Rescue initiative, our Program Lead relocated to **Türkiye** in October to lay the groundwork for the arrival of **six specially trained rats** in April 2025. These rats have undergone advanced training, honing their ability to locate survivors and return to their release point when called back, an essential skill for deployment in disaster response.

Our **Wildlife Detection Rats** also demonstrated impressive progress. Following operational trials at Dar es Salaam's seaport and airport, they successfully **detected 87% of wildlife targets**, an improvement in accuracy over the previous cohort tested in 2023. This achievement highlights their potential as a fast, scalable, and cost-effective asset in the fight against wildlife trafficking, with deployment expected in 2025.

As we look to the future, we remain committed to driving innovation and expanding our impact. To sustain momentum, we are actively seeking new donors and strategic partners who share our vision for a safer, more sustainable world.





At the seaport, the rats trained for 16 weeks using four search strategies; on a leash; with a trolley on wheels; sniffing shipping container air vents; and searching freely inside containers. After 11 weeks of precision tests with new daily samples from our partner Tanzania Wildlife Management Authority (TAWA), showed an 87% success rate, improving on 2023's 83%. Notably, the rats suc-

cessfully identified new wildlife samples on their first encounter. An impressive result emerged when we selected the three best rats for each strategy, and analyzed how many samples were detected by at least two rats per team. The results indicate that using the leash, the trolley, and the air vent strategies, as a team the rats achieved a 100% detection rate for wildlife items, whereas inside the container, they detected only 67% of the targets.















INNOVATION SEARCH & RESCUE

Dr. Danielle Giangrasso PROGRAM LEAD

APOPO's RescueRAT project trains African giant pouched rats to find survivors in post-disaster search and rescue scenarios. In 2024, the project made several strides toward real-world deployment.

The RescueRATs completed advanced training to prepare them for their upcoming relocation for operational trials in Türkiye. Training was focused on enhancing the rats' resilience in locating individuals in operational conditions, such as in complex debris scenarios, across variable environments, and under more realistic conditions where they are not predictably rewarded for locating a survivor. In parallel, we started training seven young rats on a refined protocol based on the insights gained from the first cohort.





GEA PARTNERSHIP

We also advanced preparations for operational trials in Türkiye. Our Program Lead collaborated closely with our Turkish Search and Rescue partner, GEA, to establish a rat training and research center in Antalya. Extensive logistical work has been done for the successful relocation of the rats and the APOPO team for this international initiative.

NEW RESEARCH PARTNER

Other notable milestones include continued on-site training with GEA, a new research partnership with Ankara University, and the representation of RescueRATs at the **Annual Associative** Learning Symposium at Gregynog Hall in Cardiff, Wales.





Technical University Eindhoven alumni Sander Verdiesen, an experienced electrical engineer, has been instrumental in advancing the RescueRat backpack technology. Collaborating closely with Vention, a Netherlands-based engineering company, he played a key role in refining the backpack's design and functionality.

In early 2024, the third prototype was developed, featuring a lighter, more compact design with improved transmission technology. Extensive testing in Morogoro in April demonstrated that the rats were significantly more agile with these new backpacks, though overheating remained a challenge. Building on these advancements, Sander identified WiFi HaLow as a more suitable transmission technology, which will lead to the development of a new RescueRat backpack prototype in 2025. Incorporating lessons learned from previous iterations, this new version will feature improved data transmission through dense rubble, enhanced durability, and better thermal management. Set for completion in February 2025, the new backpacks will undergo field trials in Türkiye, where RescueRats will be trained with the upgraded technology. These trials, conducted in collaboration with GEA, will provide critical insights to fine-tune performance and ensure the backpacks are fully optimized for real world Search and Rescue operations.



APOPO TRAINING & INNOVATION IS MADE POSSIBLE BY OUR PARTNERS AND DONORS

























FRANK MCHUGH-O'DONOVAN FOUNDATION



CRH CHARITABLE TRUST



INDIANAPOLIS ZOO

















Dr. Mungo Ngalameno

RESEARCH THAT ADVANCES LIVES

Veterinarian and Lecturer, Department of Veterinary Anatomy and Pathology

As a proud product of this collaboration, I am honored to have been awarded a PhD from SUA in 2024, based on six years of research supported by the African Centre of Excellence for Innovative Rodents Pest Management and Biosensor Technology Development at Sokoine University of Agriculture, in collaboration with APOPO.

My studies focused on the reproductive biology of the African giant pouched rat (Cricetomys ansorgei), the species at the core of APOPO's HeroRAT programs. These remarkable animals play a critical role in landmine detection and tuberculosis diagnosis across several countries, and improving our understanding of their reproductive cycles is key to supporting and sustaining their impact.

The research revealed that HeroRATs, both wild and captive, exhibit seasonal breeding patterns, with peak sexual activity occurring between July and September (dry season), and most pups born between October and December (wet season). This aligns with periods of food abundance, helping to optimize breeding conditions and animal welfare. These

findings offer new opportunities to refine APOPO's breeding program and strengthen the capacity of this biosensor technology.

Throughout this journey, I published four peer-reviewed scientific papers. Topics ranged from breeding cycles and ovulation patterns to genetic identification and reproductive anatomy. This work not only contributes to APOPO's mission but adds to the scientific knowledge of an overlooked animal that holds tremendous potential for humanitarian applications.

I am deeply grateful for the support from APOPO and SUA. This achievement reflects the power of long-term institutional collaboration in building research capacity, advancing science, and training the next generation of African scientists. I continue this work in my role as a consulting vet, caring for the rats who bring honor to both institutions and serve communities around the world.







MARKETING & COMMUNICATIONS

In 2024, APOPO continued to strengthen its global visibility through consistent messaging and targeted marketing and communications campaigns. The year saw a number of developments that brought increased media interest in APOPO's work, including the HeroRATs, HeroDOGs, and the human teams behind our operational impact.



This year launched HeroRAT Jane for public adoption. Named by Dr. Jane Goodall following her visit to APOPO in early 2024, Jane represents the expansion of our Wildlife Detection Program, which trains rats to detect smuggled wildlife products such as pangolin scales and rhino horn. This initiative attracted

considerable media attention and helped highlight APOPO's growing work in conservation.

Media coverage in 2024 was strong, with features in several major international outlets by both press and broadcast outlets. **The Guardian, Financial Times,** and **El País** covered APOPO's mine action, tuberculosis detection, search and rescue, and wildlife detection efforts. **Mongabay** provided in-depth reporting on our wildlife detection program. Coverage highlighted both the role of our trained animals and the expertise of APOPO's human teams in delivering frontline humanitarian services.

Digital communications remained a core part of APOPO's engagement strategy. Regular campaigns around World TB Day, International Mine Awareness Day, and Giving Tuesday supported ongoing outreach. Social media growth was significant across most platforms, reflecting broader public interest and increased global engagement with APOPO's mission and programs.

2024 was a successful year, public fundraising revenue rose to over €2.1 million, marking the highest amount in the organization's history.



Facebook followers: 125,936

X followers: 13,673

O Instagram followers: 144,055

TikTok followers: 16,600

YouTube subscribers: 3,640

LinkedIn: 5,237

Newsletter subscribers: 31,036

Global Giving Donors: 5,466

APOPO WOULD LIKE TO GRATEFULLY ACKNOWLEDGE PARTNERS AND DONORS

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Global Development Group	
Google	
Gregory Rowling	
NZH Management	
King Baudouin Foundation	
Seattle Foundation	
Maecenata	
DonorBox	
Facebook	
Global Giving	

Zoological Society of San Diego
Dume Wolvertine Foundation
SVCF
Harbison Charitable Trust
The Hough Foundation
Kay family Foundation
Johnson Charitable
Collection Car Ltd
Mandel Foundation
Tauck



APOPO thanks the University of Antwerp

for always having been a most trusted partner, hosting APOPO's Head Office, Board Meetings and providing valued scientific and networking support.

APOPO is extremely grateful for the continued Pro Bono support of the Belgian Law firm **Liedekerke Wolters Waelbroeck Kirkpatrick** and the US law firm **Foley Hoag LLP.**

Your work has proven incredibly valuable to our innovative life-saving efforts!



APOPO RAT ADOPTIONS

APOPO's HeroRATs are small in size but mighty in impact. These intelligent African giant pouched rats use their powerful sense of smell to help detect landmines and deadly diseases, supporting human teams in life-saving efforts across the globe. In 2024, we welcomed two new HeroRATs to our adoption family.

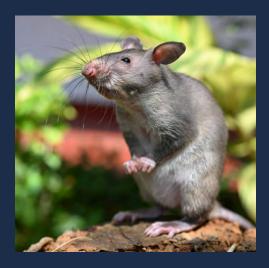


APOPO RAT ADOPTIONS MEET OUR HERORATS



Tamasha

Tamasha is a tuberculosis (TB) detection rat working in Tanzania. Based in Morogoro, Tanzania, Tamasha, whose name means "celebration" in Swahili, has already shown impressive skill in sniffing out TB-positive samples that might otherwise go undetected. Her work is crucial in helping spot previously missed cases of TB, allowing patients to get the treatment they need and preventing the further spread of the disease in the community.



Jane

Named in honor of renowned conservationist Dr. Jane Goodall. Jane is one of APOPO's pioneering wildlife detection rats. Still in training, Jane is learning to detect trafficked wildlife products such as pangolin scales, elephant ivory, and rhino horn, in port environments. Her super nose will be part of a future conservation team fighting the illegal wildlife trade and protecting endangered species around the world.



Ronin

Ronin is not just a HeroRAT, he's APO-PO's top-performing mine detection rat. Calm, confident, and relentlessly focused. Ronin works in Preah Vihear province, Cambodia alongside human deminers and handlers, helping to detect landmines quickly and safely. His accuracy and dedication make him a standout in the field, playing a vital role in returning land to communities for safe use and development.



Baraka

Baraka, whose name means "blessing" in Swahili, is a landmine detection rat deployed in Angola. Trained in Tanzania. Baraka now works with a team of deminers and handlers to locate hidden landmines. His work, though quiet and careful, has a profound impact on the lives of people who can once again farm, build, and live safely.

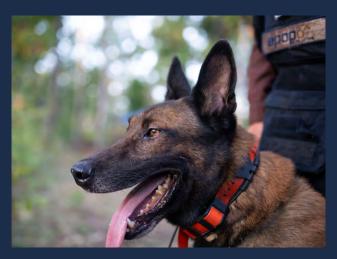


APOPO DOG ADOPTIONS

APOPO's HeroDOGs are loyal, driven, and incredibly effective members of our detection teams. In 2024, we welcomed two exceptional Belgian Shepherds to our adoption program: Kim and Khai joining a legacy of canine heroes who support landmine clearance operations in some of the world's most affected regions.



APOPO DOG ADOPTIONS MEET OUR HERODOGS



Kim

Kim is a disciplined and determined technical survey dog working in Preah Vihear, Cambodia. Quiet and methodical, Kim approaches each mission with intense focus, using his sharp nose to help his team identify areas contaminated by landmines and unexploded ordnance. He works alongside human handlers and deminers, speeding up the process of returning land to safe use. Off duty, Kim is gentle and affectionate, enjoying peaceful downtime with his handler and plenty of well-earned rest under shady trees.



Khai

Khai [short for Khaeshad] is a spirited and happy Belgian Shepherd deployed in Ukraine's Mykolaiv region. Always eager to get to work, Khai brings infectious energy to the field and a keen nose for danger. His joyful personality and playful spirit make him a favorite among his team, but when it's time to search, he's all business. Khai's contributions help reduce the time needed to identify threats, allowing his human team to focus clearance efforts where they're needed most.

Cover the costs

HeroDOGs like Kim and Khai are part of highly skilled teams that include human handlers, deminers, and technical support staff. Adopting a HeroDOG helps cover the cost of their training, care, equipment, and field operations. Adopters receive a certificate, welcome pack, and quarterly updates including inspiring stories from the field.



n 2024, APOPO's Swiss Office continued to play a key regional leadership role, driving and coordinating the organization's partnerships for Europe in order to expand its reach and reinforce its impact. Building on the momentum of previous years, the team deepened existing collaborations and secured new strategic partnerships, advancing APOPO's mission and representing the organization at prominent global events.

Throughout the year, the Swiss team successfully mobilized additional funding for Mine Action activities in Cambodia, Ukraine, and Azerbaijan, working with both long-standing supporters and new partners to scale impact in regions affected by landmines and other explosive remnants of war.

In the health sector, the Swiss Office played a vital role in securing financial support for APOPO's Tuberculosis Detection program in Tanzania. This included enabling a key expansion into the Moshi region while maintaining a strong focus on pediatric TB, an organizational priority.

The team also helped secure dedicated support for APOPO's Innovation Department, particularly the Search and Rescue Rat initiative, strengthening the organization's capacity to explore new applications of its scent detection technology.

As a cornerstone of donor engagement, the Swiss team coordinated and hosted field visits, building strong relationships with partners. APOPO was prominently featured at major donor conferences, with the Swiss team delivering keynote contributions highlighting the organization's progress and impact.

In 2024, APOPO began its targeted advocacy efforts, with the Swiss foundation taking the lead in representing the organization in its engagement with the United Nations and the European Union. APOPO was actively present at key international Mine Action and policy fora, including the National Directors Meeting (NDM-UN28), the Group of Experts meeting under **CCW Amended Protocol II of UNODA**, the **Convention** on Cluster Munitions, and the Ukraine Mine Action Conference (UMAC 2024). The team also represented APOPO at major social entrepreneurship gatherings such as the Skoll World Forum, broadening visibility and enabling cross-sector collaboration.

SWISS BOARD

Yves Hervieu-Causse - Chair Thierry de Meulder - Vice-Chair Jennifer Saurina - Board Member Ulrich Lehner - Board Member Mario Tonini - Board Member Bart Weetjens - Board Member



We are extremely proud to continue supporting APOPO's innovative work, especially in safeguarding children and their parents from the deadly threats of tuberculosis and landmines. Investing in nature-based solutions like the African giant pouched rats ensures that the youngest and most vulnerable community members grow up healthier."

Stephanie Koopmann, The Light Foundation





APOPO UNITED STATES

Charlie Richter U.S. DIRECTOR

n 2024, APOPO US continued to play a critical role in advancing the organization's global efforts through strategic fundraising and partnership development. The office helped secure renewed funding from the U.S. State Department's Office of Weapons Removal and Abatement [PM/ WRA) for demining work in Zimbabwe's Sengwe Wildlife Corridor. Additional flexible funding was also raised to support the launch of APOPO's Search and Rescue program in Turkey, operational trials of Wildlife Detection Rats in Tanzania, and APOPO's expanding mine action program in Ukraine.

The U.S. Director played a key management role in the success of Minefields to Rice Fields, a UK government-funded Development Impact Bond (DIB). The project met all its 2024 targets and has been extended through March 2026, with an additional \$1 million in funding.

APOPO is already exploring ways to expand the project, including integrating HeroTrees and piloting a premium brand for rice and produce sourced from mine action beneficiaries in Cambodia.

Driven by the success of the APOPO Visitor Center in Cambodia and growing interest from U.S. zoos and museums, APOPO US hired a dedicated Exhibits and Partnerships Officer, Erin Sackett, in late 2024. Erin previously served as APOPO's Animal Health and Welfare Officer in Cambodia and worked as a keeper at several U.S. zoos. Her role focuses on developing exhibits that fit the operational realities of zoos and museums, while replicating the visitor engagement seen in Cambodia. New partnerships will be piloted with at least two U.S. zoos in 2025.

US **BOARD** Kristen Davis - Chair **Beverly Schwartz** - Secretary Piet Van Hove - Board Member Isa Mirza - Board Member Whitney Hischier - Board Member Jerome Tagger - Board Member



It's been an honor to join APOPO as a board member. The organization's innovative use of animal scent detection. integration with emerging technologies, and creative financing approaches are truly impressive. The coordination between handlers and animals in the field is a powerful model of impact and efficiency. I'm excited to see how APOPO's unique solutions continue to support vulnerable communities and protect the environment in the years ahead."

Whitney Hischier, U.S. Board Member



abobax

2024 saw APOPO UK enjoy a fruitful year of expansion, continuing on the path of building networks and strengthening the UK team. After several years of helping to establish APOPO UK, Ros Bird stepped down from her role as Operations and Fundraising Manager. We're very grateful for her dedication and are pleased to welcome Emma Mortiboy and Andy **Bond** to the fundraising team.

We were also delighted to welcome Yasmine Colijn and Mark Unsworth to the APOPO UK Board, with Mark taking on the role of Board Secretary.

APOPO UK enables donors to make their support go even further by claiming an extra 25% on their gift through the UK's Gift Aid scheme. Emma, based in the UK, is happy to help anyone looking to maximise their impact in this way.

Support from Trusts and Foundations in 2024 has been hugely appreciated, with several contributing generously to our work. We were also excited to gain a corporate partner this year: Clarify B2B chose to support APOPO through the Clarify Foundation. The Clarify team raised over £7,000 towards our work, and we're grateful to everyone involved.

APOPO UK has been working closely with REVIVE, who lead an All-Party Parliamentary Group (APPG) focused on the humanitarian consequences of explosive weapons. This group of MPs and Peers provides an important space for discussion and information sharing. APOPO UK looks forward to contributing to this conversation in the Houses of Parliament in 2025.

We're excited for another year of growth as we explore new opportunities for innovation and partnership to advance our mission.

UK **TRUSTEE** BOARD

Susan Robertson - Chair Justin Bedingfeld - Treasurer Alan Mathers - Trustee Cameron Watson - Trustee Alan Macdonald OBE - Trustee Yasmine Colijn - Trustee Mark Unsworth - Trustee



2024 has been an exciting year for APOPO UK, and with a full board now in place, we have taken the space to think strategically about our added value to our wider shared mission. We've invested in the building blocks of a fundraising strategy and hope that this paves the way for a 2025 of increased alignment across the APOPO family, resulting in enhanced fundraising for scent detection work globally."

Yasmine Colijn, APOPO UK Trustee





The Visitor Center in Siem Reap offers informative group tours on the global landmine crisis and Cambodia's history, featuring live HeroRAT demonstrations, expanding awareness and providing crucial funding for our program. In 2024, the APOPO Visitor Center experienced its most successful year yet, welcoming nearly **66,000 visitors**. December set a new record, pulling in **8,795 guests** — the highest monthly attendance to date. The visitor base remained diverse, with 22% from the UK, 16% from the USA, 13% from Australia, and 8% from France, alongside many others from English-speaking and European countries.





Total revenue approached **\$1 million**, including \$32,000 from HeroRAT adoptions and \$49,000 from donations. The center's strong reputation continues to make word-of-mouth the biggest driver of attendance, bolstered by targeted marketing efforts such as digital ads at the **Angkor Ticket Office**, **tuktuk billboards**, **hotel and hostel partnerships**, and **social media campaigns**. Visitor feedback remains outstanding, with **4.9-star ratings** on both Google and TripAdvisor.

A major operational upgrade in 2024 was the implementation of **Odoo**, a new online booking, inventory, purchasing, and accounting system. This has streamlined operations, improving efficiency and saving valuable time for the team.

VISITOR CENTER GIFT SHOP

The APOPO Visitor Center gift shop sells merchandise like t-shirts, hats, educational toys, books, and local handicrafts. Proceeds from the shop directly support our work in Cambodia.















Sister Srey Café

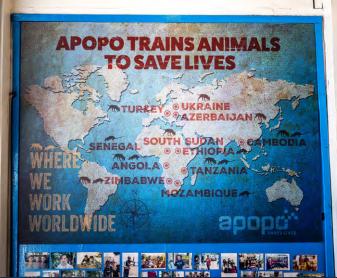


Sister Srey is a little café with a big heart nestled amongst the trees on the edge of the Siem Reap River in Cambodia. Not only is it a place to find good food and coffee, but it empowers local Khmer students and supports our Cambodia demining program.

Sister Srey Café faced challenges in 2024, with revenue reaching **\$184,500**, a 15% decrease from 2023. The main setback was an unavoidable two-month closure in October and November for repairs, impacting overall profits, which dropped to \$11,300 from \$35,000 the previous year.

Despite this, the café remains a well-loved Siem Reap staple. The upper floor is now open to customers. Reviews remain strong, and a refreshed menu is planned for the 2025 low season to drive renewed growth and attract more visitors.

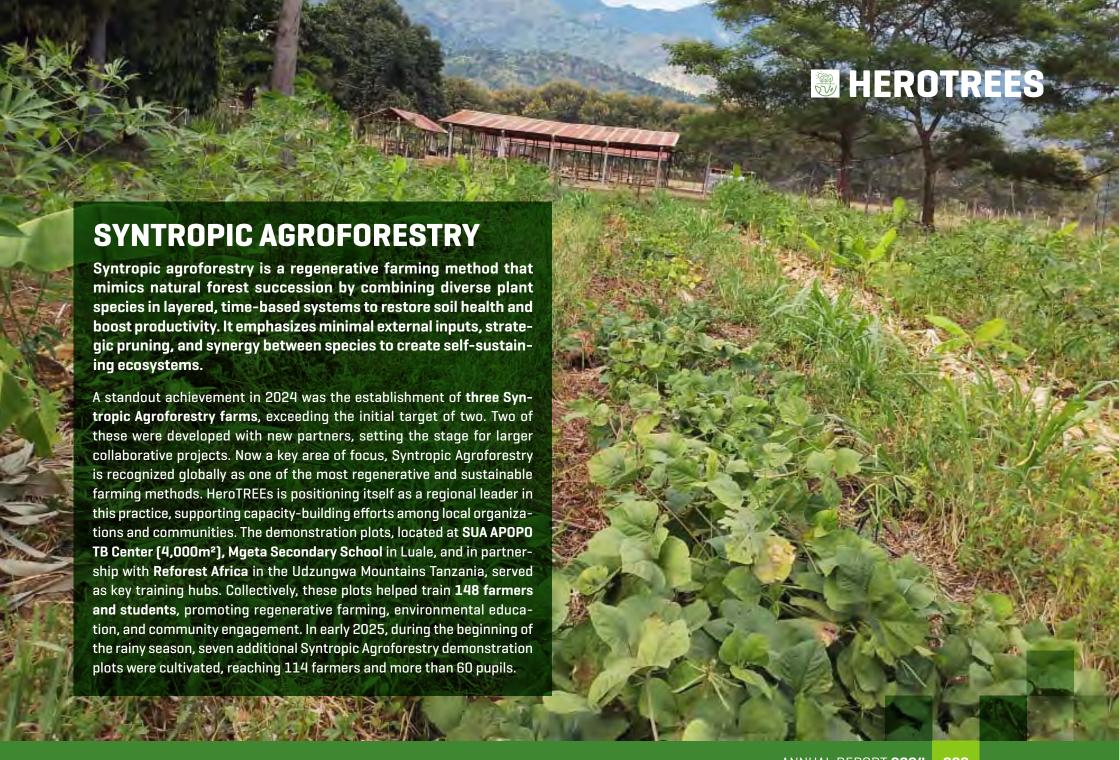






















REFORESTATION

Another major accomplishment was the successful **preparation of 50,000 seedlings**, surpassing the initial goal of 40,000, for a **60-hectare reforestation project** in partnership with SUA's Forestry Department—a major step forward in APOPO's conservation strategy. In early 2025, all seedlings were planted in collaboration with with **My Birthday Tree Organization (MBTO)** and **SUA**, with 50 students trained in agroforestry principles and tree planting. This brings the total achievement to: 25 hectares restored, 50,000 trees planted, and 50 students empowered through hands-on training.

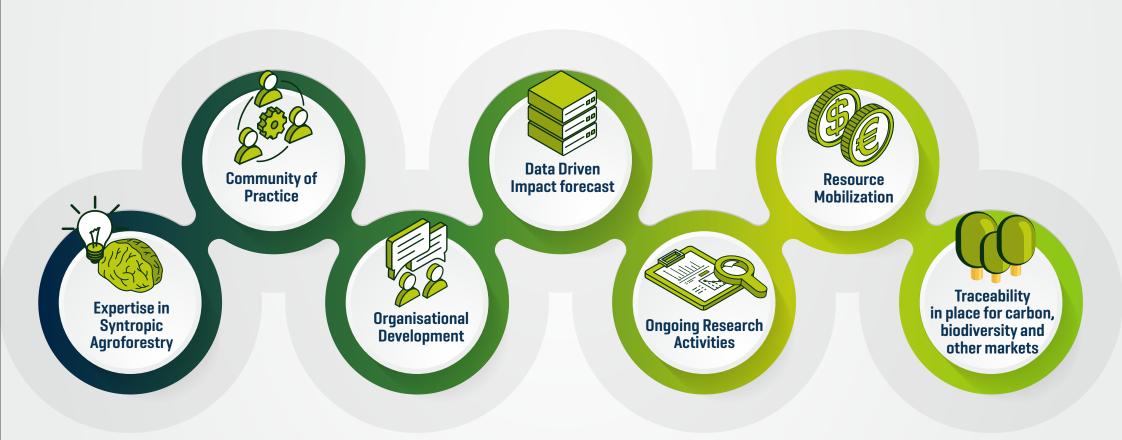


HEROTREES

Innovation Accelerator for Syntropic Agroforestry

As part of the formalization of HeroTREEs into a dedicated department, we have laid the foundation for the Syntropic Agroforestry Innovation Accelerator (SAIA). This strategy is designed for HeroTREEs to serve as a regional hub for agro-

ecological organisations aiming to scale regenerative farming practices. We will support knowledge exchange, capacity building, and the co-development of field-tested models to bring Syntropic Agroforestry to farming communities across diverse landscapes.





Lastly, 2024 saw the **strengthening of essential partnerships**, particularly with the **SUA Forestry Department, Mgeta Livelihood Development Organisation, My Birthday Tree Organization, Farmtree,** and **Reforest Africa**. These alliances are a solid foundation for future cooperative ventures that aim to scale the environmental and social impacts of APOPO's tree-planting initiatives. In summary, HeroTREEs in 2024 not only delivered impressive environmental outcomes but also reinforced APOPO's mission to build climate resilience, support sustainable livelihoods, and empower communities through nature-based solutions.

IMPACT	
Total trees successfully growing	111,215
Total people trained	1,020
Total syntropic agroforestry plots established	19

FINANCIAL STATEMENT BALANCE SHEET IN EURO*

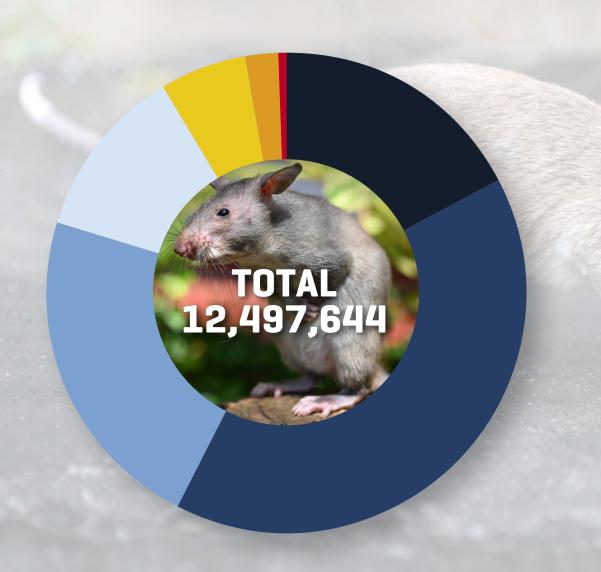
ASSETS	2024	2023
Current assets	3,584,237	3,745,631
Current receivables	1,919,456	869,032
Other assets	544,736	322,471
Cash and equivalents	1,120,045	2,554,128
TOTAL ASSETS	3,584,237	3,745,631
Liabilities		
Net capital	1,955,174	1,582,123
Funds of the organization	328,046	328,046
Retained Earnings	1,627,128	1,254,077
Long term liabilities	1,608,967	2,156,579
Deferred Income (Grants)	980,107	1,527,719
Loan	628,860	628,860
Curent liabilities	20,096	6,929
TOTAL LIABILITIES	3,584,237	3,745,631

PROFIT&LOSS STATEMENT (EURO)

	2024	2023
Total Income	12,497,654	8,964,133
Total Operational Expenses	5,292,341	3,671,255
Total Personnel Expenses	6,842,401	5,262,837
Depreciation	12,207	12,207
Other costs	196,000	-70,643
Operating Result	154,706	88,477
Financial Result	22,256	-111,386
Extraordinary Result	-	-985
Net Income	176,962	-22,910

^{*} Annual accounts audited by BDO

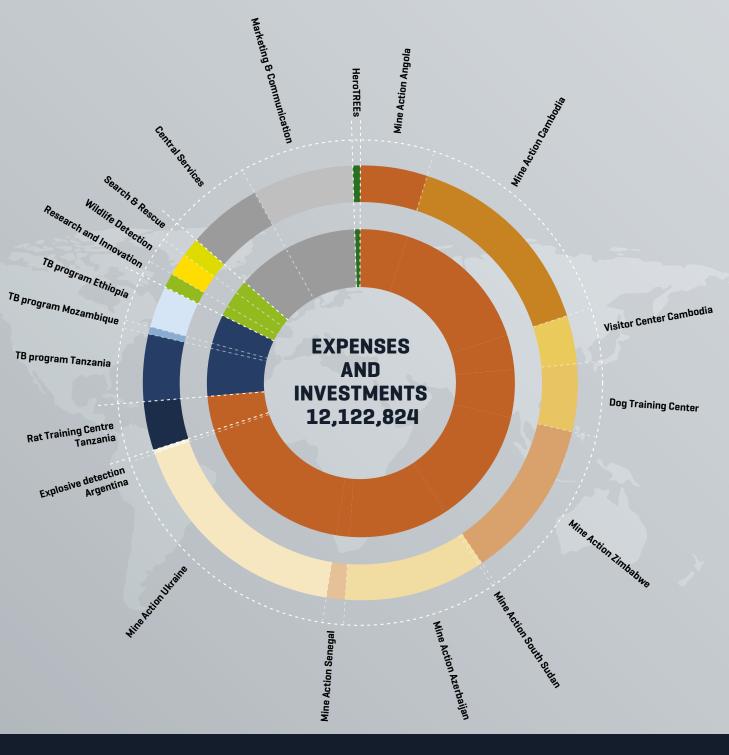
DONATIONS & SUBSIDIES 2024



Public fundraising	2,173,491
Government grants	5,029,375
Foundation grants	2,778,720
International institution grants	1,441,008
Earned income	745,536
Research grants	261,960
Miscellaneous operating income	67,554

Accountability and efficiency are important to us and for every €1 you donate, 92c goes directly to supporting our work on the ground. Only 8c contributes to fundraising costs, meaning that your support really impacts the communities that we serve.

IN FURO



EXPENSES AND INVESTMENTS 2024 PER ACTIVITY IN EURO

Mine Action Angola	630,881
Mine Action Cambodia	1,809,699
Visitor Center Cambodia	427,544
Dog Training Center	617,675
Mine Action Zimbabwe	1,447,415
Mine Action South Sudan	45,624
Mine Action Azerbaijan	1,233,348
Mine Action Senegal	153,499
Mine Action Ukraine	2,104,541
Explosive detection Argentina	37,034
Rat Training Centre Tanzania	436,133
TB program Tanzania	586,988
TB program Mozambique	97,262
TB program Ethiopia	356,096
Research and Innovation	125,512
Wildlife Detection	220,216
Search & Rescue	155,694
Central Services	685,903
Marketing and Communications	885,543
HeroTREEs	66,217
Total	12,122,824

APOPO VZW

Prinsstraat 13 2000 Antwerpen +32 3 265 41 94

Felicia Tam

Office Manager felicia.tam@apopo.org

Esther Haalboom

HR Manager esther.haalboom@apopo.org

All images @ APOPO Apart from: Bad Rabbit Studio

SUPPORT OUR WORK

HeroRAT Adoption Program

From €12 per month you can contribute to APOPO's life saving mission and receive updates of your own HeroRAT

www.apopo.org/adopt

You can also make a donation at: www.apopo.org/support-us

Bank Details

A/C No 001-3870650-38 BNP Paribas Fortis Bank Warandeberg 3, 1000 Brussels, Belgium Swift code: GEBABEBB

IBAN: BE24 0013 8706 5038

apopo.org
facebook.com/herorat
instagram.com/herorats

Operational headquarters & Training Center SUA-APOPO

Sokoine University of Agriculture PO Box 3078 Morogoro, Tanzania apopo@apopo.orq

Christophe Cox

CEO

Christophe.cox@apopo.org

Ronald Simon

CFO

ronald.simon@apopo.org

HEAD OF TRAINING

Dr. Cindy Fast

cindy.fast@apopo.org

APOPO INNOVATION

Alice Sparks

alice.sparks@apopo.org

MINE ACTION, HEAD OF PROGRAMS

Michael Heiman

michael.heiman@apopo.org

APOPO DOGS

Mikael Bold

mikael.bold@apopo.org

MINE ACTION ZIMBABWE

Robert Burny

robert.burny@apopo.org

MINE ACTION UKRAINE

Nick Guest nick.quest@apopo.org

MINE ACTION AZERBAIJAN

Mohammad Alkhlaifat

Mohammad.alkhlaifat@apopo.org

MINE ACTION ANGOLA

Manuel João Agostinho

manuel.agostinho@apopo.org

MINE ACTION CAMBODIA

Michael Raine

michael.raine@apopo.org

HEAD OF TB DEPARTMENT

Dr. Tefera Agizew

tefera.agizew@apopo.org

TB TANZANIA

Dr. Joseph Soka

joseph.soka@apopo.org

TB ETHIOPIA

Dr. Negussie Beyene

nequssie.beyene@apopo.org

INFORMATION SYSTEMS MANAGER

Morgan Kline

morgan.kline@apopo.org

HEAD OF MARKETING

Javier Castillo

javier.castillo@apopo.org

MEDIA AND COMMUNICATIONS

Lily Shallom

lily.shallom@apopo.org

HEAD OF IT

Nicolas Chammas

nicolas.chammas@apopo.org



APOPO BOARD

Prof. Herwig Leirs, Chairman

Professor of Zoology at the University of Antwerp

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Thierry De Meulder, President Consultancy Company ACT management

Kristien Verbrugghen, Director, Flemish Interuniversity Council (VLIR-UOS)

Christophe Cox, CEO

Christophe.cox@apopo.org

APOPO FOUNDATIONS

APOPO US OFFICE

Charlie Richter

Chairwoman: Kristen Davis

1133 15th street NW, Washington DC 20004 usfoundation@apopo.org

APOPO SWISS FOUNDATION

Anna Bouchier

Chairman: Yves Hervieu-Causse

6 Cours de Rive, 1204 Geneva swissfoundation@apopo.org

APOPO UK

Emma Mortibov

Chairman: Alan Macdonald

Suite 3, Peel House Cheshire, 30 The Downs, WA14 2PX, Altrincham apopouk@apopo.orq