



ACTION INDONESIA

GLOBAL SPECIES MANAGEMENT PLAN

FOR ANOA, BANTENG, BABIRUSA AND SUMATRAN TIGER



Cover photo: Anoa at TSI Bogor. Photo: GSW/PKBSI

ANNUAL REPORT 2025

ACTION INDONESIA FOUNDING MEMBERS:



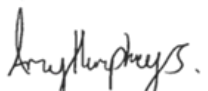
Achievements of Action Indonesia in 2025

Anoa, banteng, babirusa and Sumatran tiger all occur within Indonesia and are under threat of extinction due to hunting and habitat loss. The Action Indonesia Partnership was created with the aim to promote international collaboration to ensure the long-term survival of these species by a combination of ex situ and in situ activities. This used the World Association of Zoos and Aquariums (WAZA) Global Species Management Plans (GSMPs) frameworks for banteng, anoa and babirusa.

This year we are working hard to continue the implementation of our current program and activity as set in our masterplan in 2022 while also preparing and starting brainstorming the future plan for the next masterplan period that will be developed together in 2026. In 2025, we keep track and provide support for the implementation of the fourth set of breeding and transfer recommendations, develop communication with relevant partners to support the population management strategic plan in PKBSI. We also continue the support for *in situ* and *ex situ* activities in population monitoring, genetic sampling, raising awareness campaign, and we look forward to develop the future plan for this Action Indonesia collaboration through the Masterplan Workshop in April 2026! We are very thankful for your continued support, partnership and collaboration. Below is a summary of our achievements:

- MoU extension with GSMP partners with additional institutions including IUCN SSC Cat Specialist Group, JAZA, and ZAA.
- Sumatran tiger GSMP visits to four Indonesian zoos in October 2025, to support and increase the success of breeding and transfer recommendations.
- Update on animal transfers and births from the 4th implementation phase.
- Continued planning to develop the population management structure for PKBSI through the studbook keeper training and mentoring.
- The seventh Action Indonesia Day on August 10th which was successfully celebrated by more than 50 institutions globally.
- The GSMP Education WG held a public webinar to introduce the establishment of Action Indonesia SAFE program organized by AZA, which was attended by around 50 people.
- Continued implementation of the banteng metapopulation approach including biopsy sampling that has been moved to Ujung Kulon National Park.
- Continued support for *in-situ* partner, Alas Purwo NP, through the initiation of an education sharing session with the Education Working Group, as well as supporting the bird survey training with Chester Zoo and full park banteng monitoring.
- Initiate the communication with the *in-situ* partners, i.e. FFI-IP and WCS-IP, to work together developing the conservation strategy and action plan for anoa and babirusa in 2026.
- Initiate the discussion and brainstorm with partners & Working Group Leader representatives about the workshop process and structure for GSMP Masterplan Workshop in April 2026.
- We continued fundraising efforts to support GSMP activities.
- The GSMP supported the capacity building for Alas Purwo NP staff member to continue his master degree on banteng metapopulation data analysis as part of the preparation to conduct a Banteng Population Viability Analysis in 2027.

Thank you for your support and contributions!

						
James Burton	Marcel Alaze	Joe Forys	Eko Windarto	Amy Humphreys	JT Svoke	Malcolm Fitzpatrick
Emeritus Chair IUCN SSC AWCSG	Convenor Anoa GSMP	Convenor Babirusa GSMP	Convenor Banteng GSMP	Programme Coordinator IUCN SSC AWCSG	Co-convenor Banteng GSMP	Convenor Sumatran Tiger GSMP

Background:

What are GSMPs?

Global Species Management Plans (GSMPs) bring together zoos, governments, and conservation organisations from multiple regions to achieve globally agreed *ex situ* and *in situ* conservation goals for a species. The GSMPs are administered by the World Association for Zoos and Aquaria (WAZA) and run by committees of representatives of the regional zoo associations participating in the collaboration.

Action Indonesia GSMPs

The partners of the Action Indonesia GSMPs collaborate for the conservation of the threatened Indonesian taxa; **anoa** (*Bubalus depressicornis* and *B. quarlesi*), **banteng** (*Bos javanicus*) and **babirusa** (*Babirusa* spp.; three species). We also work together with the **Sumatran tiger** (*Panthera tigris sumatrae*) GSMP to align our activities. These GSMPs use the One Plan Approach to combine the skills, resources and expertise of both the zoo community and *in situ* practitioners. The coordination of the GSMPs is carried out by the Indonesian Zoo and Aquarium Association (PKBSI) and the IUCN SSC Asian Wild Cattle Specialist Group.

In this report, we detail our achievements in three main areas of activity that align to the following goals:

1. *Ex situ* conservation: Healthy back up *ex situ* populations fit for reintroduction
2. Education: Action and support for conservation of target species
3. *In situ* conservation: Stable and safe *in situ* populations



The four GSMP taxa (left to right): anoa in Surabaya Zoo (Photo: Jamie Jackson), banteng (Photo: Ragunan Zoo), babirusa (Photo: Audubon Zoo) and Sumatran tiger (Photo: Zoo Miami)

Your contributions in 2025

The achievements and activities delivered in 2025 were made possible by your generous support. This includes financial contributions, staff time, technical input, and the sharing of expertise.

Throughout the year, institutions allocated staff time to support a range of GSMP activities. These included strategic planning for the 2026 masterplanning workshop, population management mentoring, and facilitating information exchange on population management with PKBSI. Zoo visits were also conducted to support the implementation of breeding recommendations for tigers.

Staff contributed further by presenting at conferences and webinars, raising awareness and funds, coordinating genetic sampling, and maintaining the breeding and transfer recommendation processes. This in-kind support from your institutions and organisations is summarised in Table 1.

Table 1 also outlines the GSMP activities that contributions from your institutions and organisations have funded, or will support in the future. The dedication of those involved, alongside the generosity of our supporters, is a strong testament to the collaborative partnership underpinning the Action Indonesia GSMPs and the shared commitment of our partners.

The first section of Table 1 presents contributions to GSMP unrestricted funding. This funding is essential for the overall functioning of the GSMPs and ensures that resources are available for urgent priorities. Allocation of unrestricted funds is approved by a majority of Working Group leaders. Table 1 also details restricted funding, which supports specific, designated activities.

Table 1: Action Indonesia Partner and supporter contributions; all funding, technical and in-kind support for the GSMPs in 2025

Institute/Organisation/Individual	Contribution
Unrestricted funds	
Zoological Society of London, UK	Funds to be used for projects and activities identified as priorities by Working Group leaders.
Drayton Manor Zoo, UK	
Zoo Miami, USA	
Cologne Zoo, Germany	
West Midland Safari Park, UK	
Twycross Zoo, Leicestershire, England	
Audubon Nature Institute, USA	
Restricted funds	
Chester Zoo, UK	Coordination of the Action Indonesia GSMPs; salary and travel of AWCSG PO and AWCSG Chair; banteng <i>in situ</i> population monitoring, support for research based Masters project at Brawijaya University, East Java
Givskud Zoo, Denmark	Banteng <i>in situ</i> and genetics, support for research based Masters project at Brawijaya University, East Java
Wilhelma zoo, Germany	Sulawesi <i>In situ</i> population monitoring
Re:wild, USA	Coordination of the Action Indonesia GSMPs; salary and travel of AWCSG Chair
Nashville Zoo, USA	Sulawesi <i>in situ</i> population monitoring
CERZA, France	Sulawesi <i>in situ</i> population monitoring

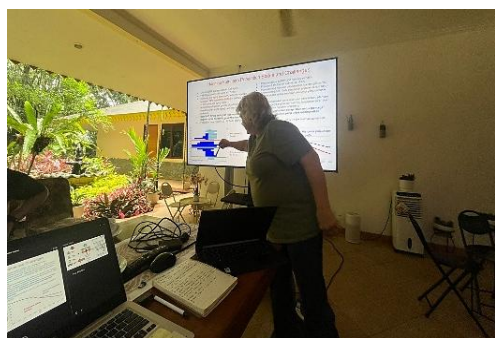
Allwetter Zoo, Germany	Sulawesi <i>in situ</i>
Zoological Society of London, UK	Tiger husbandry working group and PKBSI division zoo visits
ARTIS Zoo, Netherlands	<i>In situ</i> population monitoring and support for PKBSI-GSMP Population management coordinator salary and capacity building
Zoo Wroclaw and Dodo foundation, Poland	Banteng <i>in situ</i> population monitoring
Marcus Burkhardt, Germany	Sulawesi <i>In situ</i>
Taman Safari Indonesia Bogor, Indonesia	Contribution to PKBSI-GSMP Staff salary
Batu Secret Zoo, Jatim Park, Indonesia	Contribution to PKBSI-GSMP Staff salary
Taman Hewan Pematang Siantar, Indonesia	Contribution to PKBSI-GSMP Staff salary
West Midlands Safari Park, UK	Sulawesi <i>in situ</i> population monitoring and Banteng <i>in situ</i>
Copenhagen Zoo	Banteng biopsy sampling and banteng population monitoring in Baluran NP.
In-kind support	
Chester Zoo, UK	Staff time coordinating training in husbandry and education, capacity building for PKBSI, contributing to development of masterplanning workshop as part of organising team and leading the Education WG masterplan development
Christina Hvilsom, PhD	Mentoring in population genetics for PKBSI and genetic technical advice, genetic analysis of <i>ex situ</i> samples. Leading the Banteng <i>in situ</i> and Genetics WG masterplan development.
Lincoln Park Zoo, ZSL, EAZA Population Management Center	Staff time contributing to the development of population management masterplan workshop sessions and breeding & transfer recommendation development.
Taman Safari Bogor, Prigen Conservation Breeding Ark, National Research and Innovation Agency (BRIN), Jagat Satwa Nusantara TMII	Staff time contributing to the development of population management strategic plan in Indonesia
Taman Safari Prigen	Staff time contributing to GSMP Webinar in July 2025
Alas Purwo National Park	Staff time attending Education Sharing Session in May 2025
BISA Indonesia, Alas Purwo National Park	Staff time as trainer and participants of Bird Survey Training in August 2025
Taman Margasatwa Ragunan, Taman Safari Bogor, Taman Safari Prigen, Surabaya Zoo	Hosting the tiger husbandry GSMP team visits in October 2025
Alas Purwo National Park, Meru Betiri National Park, Ujung Kulon National Park, Baluran National Park	Staff time contributing to the banteng metapopulation approach and biopsy sampling.
National Research and Innovation Agency, Indonesia	Supporting genetic monitoring quality work (field and lab)
Taman Safari Prigen, Taman Safari Bogor, Surabaya Zoo	Staff time for studbook keepers for banteng, anoa, Sumatran tiger, and babirusa.
Zoological Society of London, UK	Staff time for Husbandry WG tiger zoo visits; contributing expertise and tiger zoo visit cost for Kathy Traylor-Holzer, PhD and Karen Goodrowe Beck, PhD.
Miami Zoo, USA	Staff time for the coordination of the Action Indonesia SAFE programme
EAZA Executive office, Netherlands	Staff time population management mentoring and supporting information exchange on population management with PKBSI, contributing to the development of population management masterplan workshop sessions and breeding & transfer recommendation development.
Karen Goodrowe Beck, PhD	Expertise and time for Husbandry WG tiger zoo visits

Thanks to all Indonesian zoos and institutions that continue to participate in the breeding and recommendations process and to all the zoos and institutions around the world that participated in Action Indonesia Day 2025.

1. GSMP Husbandry Group Strengthened Collaboration and Advanced Tiger Management.

In October 2025, the GSMP Husbandry Working Group and PKBSI Ethics and Animal Welfare Division had the privilege of continuing its collaborative work with zoological institutions in Indonesia. The visit, which was coordinated by PKBSI Secretariat, was both intensive and highly productive, providing valuable opportunities to strengthen professional relationships, exchange husbandry knowledge, and support ongoing breeding and animal welfare initiatives.

A major focus of the trip was building problem-solving capacity within animal care teams. Rather



Karen explaining tiger demographic at Ragunan Zoo. Credit: PKBSI

than simply providing solutions to identified challenges, the group worked alongside institutions' staff to facilitate a structured and sustainable problem-solving process. This approach encouraged teams to analyse issues, develop practical solutions, and independently implement improvements. By the conclusion of the visits, participating collections demonstrated a strong understanding of the methodology and were confident in applying it.

The trip highlighted the significant progress of Indonesian institutions in Ragunan Zoo, Taman Safari Bogor, Surabaya Zoo, and Taman Safari Prigen since the previous husbandry workshop held in October 2023 and various instructional visits. Across all institutions visited, there was a strong commitment to learning, collaboration, and continuous improvement. Advancements are in a range of areas, including husbandry practices, nutrition management, body condition monitoring, breeding management, animal welfare, and human safety. This demonstrates the value of the collaborative approach being undertaken and the positive impact it continues to have on tiger management.

Throughout the visit, extensive discussions were held on many aspects of tiger husbandry and breeding, allowing participants to share experiences, explore new ideas, and learn from one another. Equally important was the continued strengthening of relationships built over multiple visits. These partnerships remain a critical foundation for future progress and long-term success.



*Visiting tiger holding in TSI Bogor.
Credit: PKBSI*



*Amy (TSI Bogor) shared the current tiger population
in TSI Bogor. Credit: PKBSI*



*Karen shared information about Sumatran tiger
GSMP in TSI Prigen. Credit: PKBSI*

Collaboration with PKBSI Ethics and Animal Welfare Division provided an excellent opportunity to spend more time with members and gain a deeper understanding of the important work being undertaken by PKBSI. A key component of the programme involved PKBSI presenting its latest enclosure standards to participating institutions, reflecting the organisation's ongoing commitment to enhancing animal welfare standards across Indonesian zoos.

Looking ahead, the GSMP Husbandry Group is excited to continue strengthening its partnership with PKBSI and Indonesian institutions. One of the key objectives of the Husbandry Group is to assist in the development of a comprehensive tiger husbandry manual for PKBSI member institutions. During discussions, several collections also highlighted the value of increased knowledge sharing between veterinary professionals, recognising the potential benefits such collaboration could bring to animal health and welfare outcomes.

The GSMP Husbandry Group extends its sincere thanks to all participating institutions for their warm welcome, hospitality, and commitment throughout the visit. Special thanks are also extended to the PKBSI team and their institution, particularly Willem Manansang (Taman Safari Indonesia), Tonny Wahyu, Drh. Wisnu Wardana, Drh. Yus Anggoro Saputra (Taman Impian Jaya Ancol) and Sufraha Islamia, whose support and assistance were invaluable in ensuring the success of the trip, as well as to ZSL London Zoo and Karen Goodrowe Beck, PhD, who have allowed staff time and expertise in this visit. The enthusiasm, dedication, and collaborative spirit demonstrated by all involved continue to drive meaningful progress in tiger conservation and management across Indonesia.

2. Breeding & Transfer Recommendation Achievements in 2025

The fourth cycle of breeding and transfer recommendations in Indonesia have had multiple successes this year. Compared to the previous cycle, all species showed an increase in birth rates and improved survival rates for their young. Following the recommended transfer of a female anoa (Benga) from TSI Bogor in October 2024, Ragunan Zoo went on to successfully breed her with their male anoa (Demar). The newly formed pair resulting in a female calf named Tamara, born in September 2025. This is a prime example of how these transfer recommendations positively impacted successful breeding.



Anoa transfer from TSI Bogor to Ragunan Zoo in 2024. Credit: TSI Bogor



*Anoa calf at Ragunan Zoo.
Credit: Ragunan Zoo*



*Babirusa Piglet at TSI Prigen.
Credit: TSI Prigen*

For babirusa, the population grew with the birth of two piglets. TSI Prigen welcomed a female piglet named Nara from the pair Amel (female) and Jordi (male). Nara was born in August 2025, and her mother was 19 years old at the time. Another significant achievement came from Batu Secret Zoo, which welcomed a male piglet named Coco, born to Rose (female) and Rizal (male) in very early January 2026. This pair had made several breeding attempts in the past, and we are fortunate that they have finally succeeded.

Banteng continues to demonstrate strong and consistent breeding success. At Ragunan Zoo, a male calf named Novan was born in November 2025 from the pair Susi (female) and Bejo (male). TSI Prigen also welcomed two calves from different pairs: Tini (female), born in March 2025 from Tika (female) and Milo (male), and another male calf Sule, born in May 2025 from Suni (female) and Milo (male). Additionally, Bali Safari Park achieved a significant milestone by successfully breeding Timia (female) and Selamat (male) in 2025, resulting in the birth of a male calf named Tito. They have previously had two calves in 2024.



*Banteng calf at Ragunan Zoo.
Credit: Ragunan Zoo*



Sumatran tiger transfer from Maharani to Surabaya Zoo. Credit: Maharani Zoo

Several pairs of Sumatran tigers successfully bred and are expected to produce offspring in 2026. A number of transfer recommendations have been implemented in this cycle, including the transfer of one female tiger from Maharani Zoo to Surabaya Zoo to breed. Additionally, a pair of tigers have moved from Maharani Zoo to Batu Secret Zoo. There are plans to send two tigers from Batu Secret Zoo to the European Endangered Species Programme (EEP) in the next cycle, marking an important step toward initiating international transfers.

The 5th cycle of recommendation will be developed in April 2026 during the Action Indonesia GSMPs Masterplanning workshop. Preparatory activities, including data updates and the distribution of questionnaires, will be carried out in advance of the workshop. These questionnaires will collect updated population data from each zoo, as well as information on future management plans, to support the development of breeding and transfer recommendations.

During the workshop, draft recommendations for each species will be reviewed and discussed with representatives from participating zoos, studbook keepers, and population biologists. The fifth cycle of recommendations is scheduled for release in July 2026 during a second workshop, which will bring together zoo directors to review and finalise the agreement letter.

This process is supported by the Ministry of Forestry, which will provide an endorsement letter for the recommendations. Following endorsement, zoos will be able to begin implementing the agreed actions. The letter will also support collaboration with provincial forestry authorities (BBKSDA/BKSDA) to facilitate effective implementation of the recommendations.

3. Promoting Action Indonesia Day 2026



Action Indonesia Day Artwork. Credit: Peppermint Narwhal

Action Indonesia Day 2026 is set to be bigger and better than ever this year, taking place on 9 August 2026.

Building on the success of previous years, this global initiative continues to unite conservation professionals, zoological institutions, and partner organisations in a shared commitment of protecting some of Indonesia's most remarkable and threatened species. Activities will span zoos and national parks across Indonesia, the United States, and Europe.

Participating institutions will deliver a diverse programme of on-site engagement activities designed to connect visitors with these species and the threats they face. These will include educational talks, interactive games,

fundraising initiative, and much more, all aimed at inspiring greater public awareness and support.

The lead-up to Action Indonesia Day will formally begin with the annual webinar, *“Collaboration Is Key: International Perspectives on the 2026 Action Indonesia Global Species Management Plan and One Plan Approach,”* taking place on 9 June 2026. This session will bring together an international panel of experts who will present key outcomes from the master planning process, offering valuable insights into coordinated global efforts to manage and conserve these species both in situ and ex situ. The webinar will also be available to watch back on the Action Indonesia Website.

In the weeks preceding the event, the “Pass the Snoot” social media campaign will return. This engaging initiative invites participating organisations to share images of the distinctive “snoots” (noses) of GSMP species across their digital platforms, creating a sense of continuity and connection across institutions and audiences worldwide.

On 9 August 2026, Action Indonesia Day itself will see institutions come together in a coordinated global effort to celebrate Indonesian biodiversity and highlight the importance of conservation action. Through visitor engagement, storytelling, and collaborative programming, the day will showcase the collective impact of the international conservation community working towards a shared vision.

Participating institutions will also be invited to contribute to a post-event evaluation. This will assess the effectiveness of Action Indonesia Day as an awareness-raising campaign for the four focal species and the threats they face. Insights gathered through this process will be invaluable in ensuring continued growth, accountability, and evidence-based conservation engagement. For more information on Action Indonesia Day or how to get involved, please visit the website: <https://www.actionindonesiagsmp.org/>.

4. Preparation for Action Indonesia GSMP Masterplan Workshop 2026



Photo Group from 2nd GSMP Workshop in 2018. Credit: PKBSI

On the April 20th to 24th 2026, we will be holding the Action Indonesia GSMP Masterplan Workshop in Cisarua, Bogor, West Java, Indonesia. This will be the fourth of the GSMP masterplan workshops with the others previously held in 2016, 2018, and 2022 (online).

One of the key outputs of the workshop will be the publication of a Masterplan for the 2026–2029 period. In addition, participants will develop *ex situ* breeding and transfer recommendations for anoa, banteng, babirusa, and Sumatran tigers to guide population management and breeding activities over the subsequent 18-month implementation period.

During the workshop, stakeholders will identify how the *ex-situ community* can support *in-situ* species conservation, using the Ex-Situ Conservation Assessment (ECA) approach. This 5-step framework was developed by the IUCN SSC Conservation Planning Specialist Group (CPSG). It involves identifying the potential *ex-situ* roles that can contribute to species conservation as well as considering the feasibility and risk for each role. To support this objective and strengthen connections and relationships between *ex-situ* and *in-situ* conservation efforts, several *in-situ* partners will participate in the workshop. They will provide updates on ongoing conservation activities and collaborate with participants to identify opportunities for greater *ex-situ* contributions. Participating organisations include Fauna and Flora International (FFI) an Indonesian lead Programme working on anoa conservation, Wildlife Conservation Society (WCS) an Indonesian led programme focusing on babirusa conservation, Forum Harimau Kita (FHK) who coordinate the Sumatran tiger *in-situ* conservation work, as well as colleagues from four national parks in Java that hold Javan banteng populations Alas Purwo, Meru Betiri, Baluran, and Ujung Kulon. Together with *ex-situ* conservation experts and other workshop participants, these partners will contribute to the development of shared goals and collaborative actions for inclusion in the Masterplan document.

Another objective of the workshop is to define how Action Indonesia can contribute more broadly to conservation efforts by strengthening its partnership with PKBSI and supporting the organisation's strategic priorities. To identify the most relevant topics for discussion, a brainstorming meeting will be held with PKBSI division heads in January 2026 to gain a better understanding of their priority areas and determine which issues should be brought forward for workshop consideration.

This workshop is expected to be attended by around 100 participants including representatives from the Indonesian government, the PKBSI Board, Indonesian zoos, studbook keepers, population biologists, GSMP representatives, as well as experts from Indonesia, Europe, America, Japan, and Australia. The workshop will provide a valuable platform for stakeholders to meet, exchange knowledge, and discuss opportunities to strengthen the integration of *ex-situ* and *in-situ* conservation efforts. These discussions will support species conservation planning in line with the IUCN SSC Conservation Planning Specialist Group's (CPSG) One Plan Approach, which promotes collaborative conservation actions across all sectors involved in species management and recovery.

5. Advancing Javan Banteng Conservation Through Research and Global Partnership

By Wahyu Murdyatmaka, Banteng Monitoring Coordinator in Alas Purwo NP



Wahyu at his campus.

Credit: Wahyu Murdyatmaka

I am honoured to be a recipient of the 2025 scholarship funded by the Global Species Management Plan (GSMP) for Action Indonesia through the Indonesian Zoos and Aquariums Association (PKBSI). This support has been instrumental in my academic journey as a Master by Research student in the Faculty of Mathematics and Natural Sciences, Department of Biology, at Universitas Brawijaya in Malang, Indonesia.

My first semester concluded with outstanding results, achieving a perfect index of 4.0 across all courses. This strong academic foundation enabled me to develop and submit a thesis proposal focused on the population, distribution, and habitat selection of the Javan banteng (*Bos javanicus javanicus*). This Critically Endangered species represents a key conservation priority in Indonesia, and my research aims to contribute meaningful data to support its long-term survival.

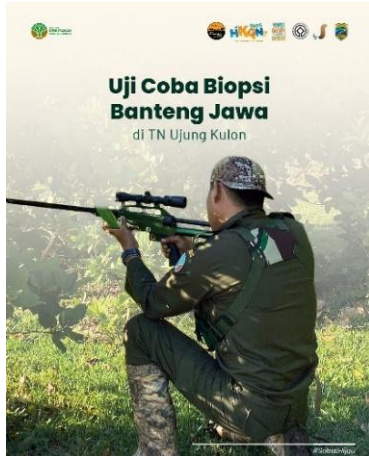
As I'm near the completion of my second semester, I'm preparing to participate in an international symposium in Yogyakarta in mid-June 2026, where I plan to present an abstract summarizing my preliminary findings. This forum will provide an invaluable opportunity to share insights, receive feedback from global experts, and strengthen collaborative networks in the field of wildlife conservation.

I am deeply grateful for the support provided by GSMP and PKBSI, which has not only advanced my personal academic and professional growth but also benefited my home institution, Alas Purwo National Park. The knowledge and skills I am gaining will directly enhance conservation efforts within the park, contributing to more effective management strategies for the Javan banteng and other endemic species.

This scholarship represents more than financial assistance. It's a commitment to fostering local expertise and strengthening global conservation initiatives. I'm proud to contribute to this mission & look forward to applying my research outcome to practical, on-the-ground conservation challenges.

6. Update on Banteng Biopsy Sampling and Timeline to Banteng PVA

Following the successful collection of banteng genetic samples from three national parks in Java (Alas Purwo, Baluran, Meru Betiri), the dart gun was relocated in February 2025 from East Java to western Java, to Ujung Kulon National Park to start the biopsy sampling.



Social media post from Ujung Kulon. Credit: Ujung Kulon NP

Sampling was conducted in June 2025 by Ujung Kulon National Park field officers who received training in biopsy sampling using a dart gun in 2023. However, the sampling process was challenging and the team were unable to collect as many biopsy samples as anticipated. One of the main difficulties was disturbance from other wildlife, particularly peafowl, which share the Cidaon Savanna habitat with banteng in Ujung Kulon National Park.

Despite these challenges this first sampling effort resulted in two biopsy samples and six petrous bone samples. These additions brought the cumulative total collected from the four national parks to 33 biopsy samples & 51 petrous bones samples by the end of 2025.

Ujung Kulon National Park is currently a priority site for genetic sampling, as additional sample representation is needed from the western population. Obtaining more samples from this population is important for understanding the genetic characteristics of banteng that have long been geographically isolated from populations in eastern Java.

To address this knowledge gap, we plan to conduct an additional round of sampling in Ujung Kulon to increase the number of samples available for analysis. However, the timeline will need to remain flexible, as the project relies on a single dart gun owned by Baluran National Park. The equipment is also required for ongoing activities in Baluran, and scheduling must therefore be coordinated to accommodate the needs of both sites.

We plan to continue genetic sampling in Ujung Kulon National Park in early 2026. There is also the possibility of conducting a second round of sampling in Meru Betiri National Park during 2026, depending on the number of samples successfully collected in Ujung Kulon. If Ujung Kulon is able to achieve the target number of samples, the dart gun may be transferred to Meru Betiri to support additional sampling efforts.

Further sampling in Meru Betiri is considered important, as only a single sample was obtained during fieldwork conducted in 2024. The current sampling phase is scheduled to conclude by the end of August 2026, after which all collected samples will undergo DNA extraction at BRIN. Genetic data analysis will then be carried out through the first half of 2027.

This new timeline means that the Banteng Population Viability Analysis (PVA) Workshop will be delayed till the end of 2027 or early 2028. This will allow the integration of genetic results, and the camera trap population data analysis, into the PVA modelling as part of the workshop preparation.

Several elements of the action plan, particularly those related to *ex situ* contributions will be discussed further during GSMP Masterplan workshop in April 2026, which will involve *in-situ* and *ex-situ* experts. A preliminary meeting will also be held in January 2026 to develop the possible vision, goals, and objectives among the organizing teams, including some logistical discussion.

The SRAK will be a crucial document guiding conservation actions for anoa and babirusa. Its development will be informed primarily by the Anoa and Babirusa Conservation Planning Workshop scheduled for the second half of 2026. The workshop will include sessions to reassess the IUCN Red List status of anoa and to undertake IUCN Green Status of Species (GSS) assessments for both anoa and babirusa. A session about Wildlife Health Risk assessment for babirusa is also being considered as currently African Swine Fever (ASF) is having a significant impact on babirusa populations. The outcomes of these discussions and assessments will help shape conservation priorities and actions within the new SRAK.



Initial Meeting Between PKBSI & WCS-IP. Credit: PKBSI

Outlook for 2026

Successes this year with breeding and transfer recommendation implementation and its related activity to improve the success, population management structure development, *in situ* monitoring, genetic sampling, and expanding network to *in-situ* partners in terms of the preparation for the GSMP Masterplan Workshop and Anoa Babirusa SRAK workshop in 2026 have demonstrated our ability to collaborate on ambitious activities using a variety of approaches. We are excited to implement more of our plans next year, including but not limited to:

- GSMP Masterplan Workshop in April 2026, including the masterplan writing after the workshop.
- Supporting the anoa and babirusa conservation strategy and action plan (SRAK) workshop at the second half of 2026.
- Expanding the banteng *in-situ* monitoring support for Meru Betiri National Park as well as supporting data analysis as part of the data preparation for Banteng PVA Workshop in 2027.
- Continuation of 4th set of breeding and transfer recommendation implementation and the 5th set of the recommendation after the endorsement from the ministry.
- Studbook Keeper Training for Indonesian Studbook Keeper in the second half of 2026.
- Completing banteng biopsy sample collection and population data analysis in all parks and proceeding to the sample extraction and analysis.

We look forward to the next **Action Indonesia Day on 9th August 2026**. Please check the [GSMP website](#) and social media pages for updates and resources on how to get involved in Action Indonesia Day this year.

We rely on your support, expertise and funding to carry out our activities. If you are interested in getting involved and want to find out more, please contact either James Burton (jamesaburton@yahoo.co.uk) or Amy Humphreys (a.humphreys@chesterzoo.org) of the AWCSG, a Working Group leader (see Table 2 Annex) or one of the GSMP convenors or co-convenors:

- Anoa: Convenor: Marcel Alaze; Co-convenor: Yohana Tri Hastuti
- Banteng: Convenor: Eko Windarto; Co-convenor: JT Svoke
- Babirusa: Convenor: Joe Forsy; Co-convenor: Drh. Glen Kartiko.
- Sumatran tiger: Convenor: Malcolm Fitzpatrick; Co-convenor: Drh. Ardyta Widiанти.

We wish all partners well for the coming months.

We need your help for the 2026 activities – please get in touch!

Find us on www.actionindonesiagsmp.org or on social media following the links below:

FIND US ON SOCIAL MEDIA



[Action Indonesia GSMP](https://www.facebook.com/ActionIndonesiaGSMP)

[IUCN Asian Wild Cattle Specialist Group](https://www.facebook.com/IUCNAsianWildCattleSpecialistGroup)



[@iucn_wildcattle](https://www.instagram.com/iucn_wildcattle)

[@action_indonesiagsmp](https://www.instagram.com/action_indonesiagsmp)

Annex: Action Indonesia GSMP founding members, working groups and leaders

The Action Indonesia GSMPs were founded by the Indonesian Zoos and Aquariums Association (PKBSI), the European Association of Zoos and Aquaria (EAZA), the Association of Zoos & Aquariums (AZA), the IUCN Species Survival Commission (SSC), the IUCN SSC Asian Wild Cattle Specialist Group (AWCSG) and the IUCN SSC Wild Pig Specialist Group (WPSG) in 2015. In March 2016, they were endorsed by the Indonesian Ministry of Environment and Forestry and WAZA. The Sumatran tiger GSMP is WAZA's longest running GSMP, started in 2008 with the additional partners of the Zoo and Aquarium Association Australasia (ZAA) and the Japanese Association of Zoos and Aquariums (JAZA). Below is the list of the thematic Working Groups and their leaders:

Table 2 Action Indonesia GSMP Working Groups and leaders.

Name	Contact details	Affiliation(s)
Anoa Population Management		
John Andrews	jandrews@lpzoo.org	AZA Population Management Centre, Lincoln Park Zoo, USA
Yohana Tri Hastuti	yohanavet@tamansafari.net	Taman Safari Indonesia Bogor, Indonesia
Babirusa Population Management		
Charlotte Desbois	charlotte.desbois@eaza.net	EAZA
Drh. Glen Kartiko	Kuratorkbs@gmail.com	Surabaya Zoo, Indonesia
Banteng Population Management		
Eko Windarto	husbandry_manager_tsi2@tamansafari.com	Taman Safari Indonesia Prigen, Indonesia
Rachel Bladow	rbladow@lpzoo.org	AZA Population Management Centre, Lincoln Park Zoo, USA
Sumatran Tiger Population Management		
Kathy Traylor-Holzer	kathy.traylor.holzer@gmail.com	IUCN SSC Conservation Planning Specialist Group (retired), USA
Drh. Ardyta Widiarti	ardyta_vet@tamansafari.net	Taman Safari Indonesia Bogor, Indonesia
Education		
Charlotte Smith	c.smith@chesterzoo.org	Chester Zoo, UK
Drh. M. Piter Kombo	piter_kombo@yahoo.co.id	PKBSI
Fundraising		
James Burton	jamesaburton@yahoo.co.uk	IUCN SSC Asian Wild Cattle Specialist Group, UK
Joe Forsys	jforys@auduboninstitute.org	Audubon Nature Institute, USA
Marcel Alaze	alaze@allwetterzoo.de	Allwetterzoo Munster
Genetics		
Gono Semiadi	semiadi@gmail.com	National Research and Innovation Agency, Indonesia
Christina Hvilsom	hvilsom@gmail.com	
Husbandry Training		
Amy Humphreys	a.humphreys@chesterzoo.org	Chester Zoo, UK
Willem Manansang	willem@tamansafari.com	PKBSI/Taman Safari Indonesia
Anoa and Babirusa <i>in situ</i>		
James Burton	jamesaburton@yahoo.co.uk	IUCN SSC Asian Wild Cattle Specialist Group, UK
Corinne Bailey	c.bailey@chesterzoo.org	Chester Zoo, UK
Banteng <i>in situ</i>		
Corinne Bailey	c.bailey@chesterzoo.org	Chester Zoo, UK

Citation:

Yonathan, Y., Islamia, S., Humphreys, A., & Burton, J. 2026. Action Indonesia – Global Species Management Plans for banteng, anoa, babirusa and Sumatran tiger. Annual Report 2025.

Available from:

IUCN SSC Asian Wild Cattle Specialist Group (www.asianwildcattle.org)

Contact:

James Burton, Emeritus Chair of the IUCN SSC Asian Wild Cattle Specialist Group (jamesaburton@yahoo.co.uk)



Thanks to all the Action Indonesia GSMP partners and supporters

