



Updates on Regional Efforts and Initiatives on One Health and Biodiversity

South-East Asia Wildlife Health Network Meeting
and Special Session at Southeast Asia One Health University
Network 2022 International Conference

September 5-6, 2022 Nonthaburi, Thailand





The ACB is an intergovernmental organisation and regional centre of excellence established by the AMS in 2005 to facilitate regional and global cooperation on the conservation and sustainable use of biodiversity.





MAINSTREAMING BIODIVERSITY IN THE HEALTH SECTOR

OVERVIEW OF ACB's WORKS ON BIODIVERSITY AND HEALTH

- In 2016, biodiversity and health were part of the strategic focus areas of the second ASEAN Conference on Biodiversity (ACB2016). It provided various recommendations still relevant to date such as:

- conduct research on zoonotic diseases transmissions and antimicrobial resistance, and knowledge, attitudes and practices to develop culturally appropriate health and biodiversity communication tools

RESEARCH



- for the ASEAN region with a focus on health that addresses various issues on health and biodiversity

MODEL
BIODIVERSITY
LEGISLATION



- develop communication materials that help raise awareness of the linkage between biodiversity and health, particularly on harmful practices leading to disease transmission, and that help promote health and wellness in the region

COMMUNICATION



- conduct capacity building initiatives on health and biodiversity to strengthen capacities on wildlife disease surveillance, and application of the One Health approach

CAPACITY
BUILDING



- identify champions who can convince decision makers in strengthening legislations and policies on health and biodiversity that consider economic and social dimensions and increase transboundary cooperation to adopt the cross-sectoral One Health approach in the ASEAN region, with a focus on zoonosis and food security

BIODIVERSITY
CHAMPIONS





Regional Workshop to Address Inter-linkages between Human Health and Biodiversity in the ASEAN Region

2018





Assessment Report of the Status on the Nexus between Biodiversity and Health, Food and Nutrition, and Traditional Medicine in ASEAN Member States

Areas for Collaboration for health and biodiversity in ASEAN



Traditional medicine and nutrition



Healthy lifestyles and aging



Zoonotic and emerging diseases

Build on Existing Initiatives



Strengthen and enhance ecosystem resilience initiatives

- engage local communities
- research
- monitor biodiversity utilisation



Include health and biodiversity in regional and national NBSAPs



Photo from asean.org



BROAD STRATEGY 5

Advancing Towards a More Sustainable and Resilient Future

Promote nature-based solutions to increase the region's resilience towards future pandemics

Pursue a pro-poor, inclusive, gender-, culture- and climate-responsive approach to recovery and strengthen integrated policy frameworks to address governance gaps in the rural-urban continuum, as well as cross-sectoral and inter-sectoral cooperation at the ASEAN level



**Pandemic
Resilient
ASEAN REGION**



Biodiversity-focused
pandemic recovery and
resilience building



Biodiversity
and Health
Communication



Biodiversity and Health
Multi-sectoral
Collaboration



Biodiversity and
Health Research
and Capacity Building



Harmonization of
Biodiversity and
Health Plans,
Policies and Programs



Nature-based Solutions



actions to protect, conserve, restore, sustainably use and manage natural or modified terrestrial, freshwater, coastal and marine ecosystems which address social, economic and environmental challenges effectively and adaptively, while simultaneously providing human well-being, ecosystem services, resilience and biodiversity benefits

BIODIVERSITY:

Addressing and Preventing Pandemics



Deforestation
Habitat fragmentation / modification
Encroachment
Land use change

Conserve wildlife and their habitats

Illicit wildlife trade should be addressed. Protected areas should also be increased, while ensuring that existing ones are effectively managed.

Promote urban and agricultural landscapes to build resilience

Green spaces and agricultural landscapes provide ecosystems services that may improve air quality, promote protection from disasters, and offer havens for various species.

Ecosystems' Restoration

Restoring the ecosystems can bring back ecological stability

Adopt the "One Health" approach

Experts in health, the environment, and related disciplines should collaborate to address issues like food safety and control of zoonotic diseases.

Enhance regional and subregional synergies

A crisis with this scale requires enhanced cooperation within the ASEAN region, among nations, and regional organisations.



ONE HEALTH APPROACH

Opportunities

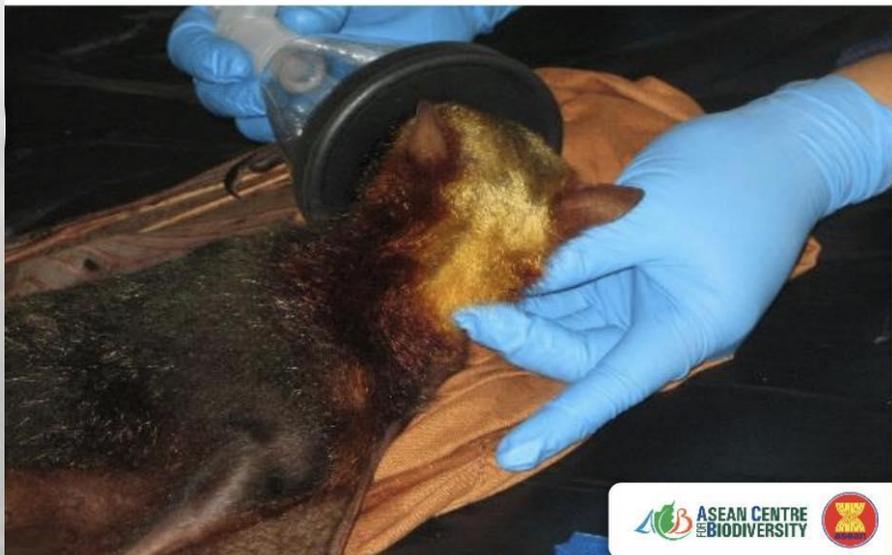
**Post-2020 Global
Biodiversity
Framework**

**Long-Term
Approach to
Mainstreaming
Biodiversity
(LTAM)**



Study for the **Development of the Biodiversity-focused Surveillance Mechanism for Zoonotic Diseases**

This study aims to emphasise monitoring of wildlife-human interaction and viral spill-overs to address the zoonotic disease at source through the assessment of state of biodiversity in emerging disease hotspots and mapping of threats and risks and tracking of the transmission pathways.



RESEARCH AND DEVELOPMENT ON WILDLIFE

- **Community-based biodiversity research and monitoring of Sulu hornbills** and other threatened forest birds and establish baseline information on migratory birds & flying foxes in Tawi-Tawi Group of Islands, Philippines.

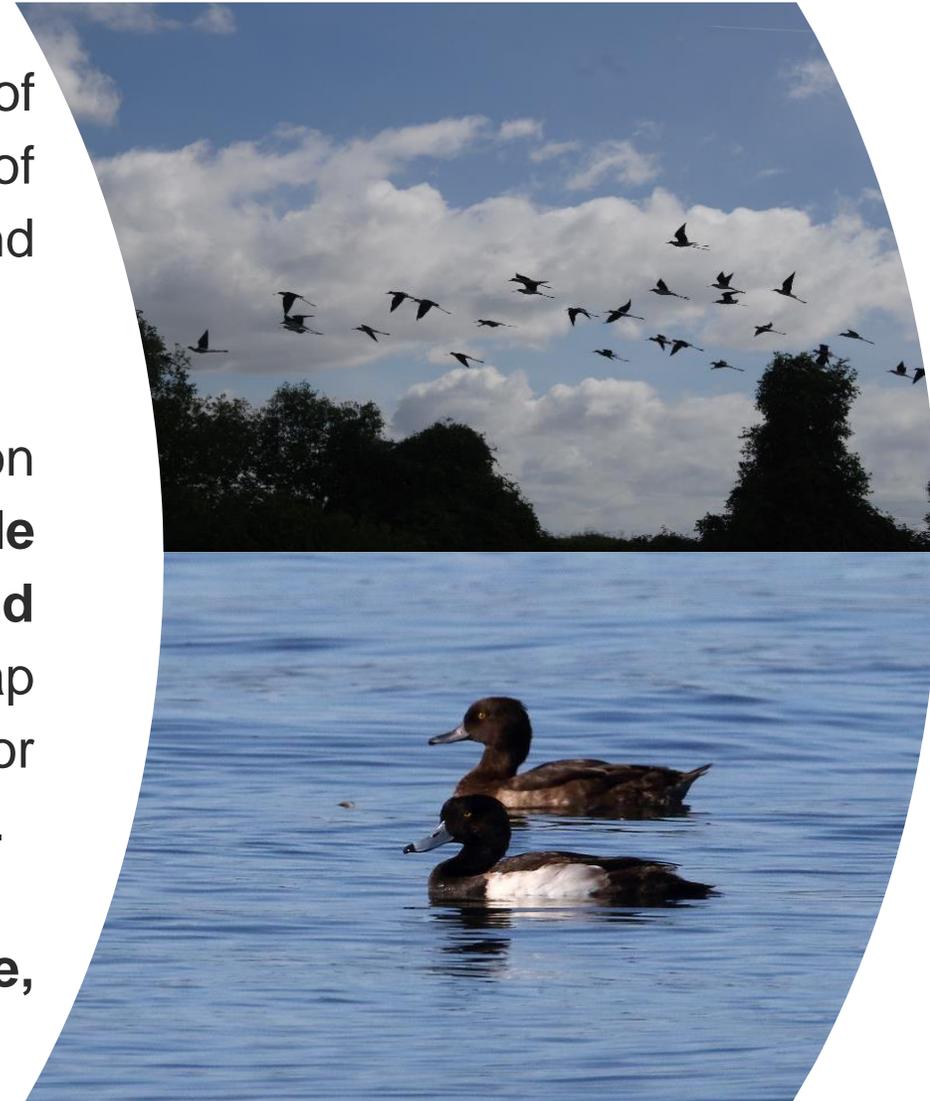


Photo by Bim Quemado



RESEARCH AND DEVELOPMENT ON WILDLIFE

- Surveys among the ASEAN Heritage Parks (AHPs) on effect of COVID-19 and support needed for recovery, development of strategies and framework of action on COVID-19 recovery and building resilience to future pandemics.
- In collaboration with the IUCN SSC Asian Species Action Partnership (ASAP), a **Study was conducted to compile baseline information on critically endangered land and freshwater vertebrate species in the ASEAN region**, map these species distributions to identify priority sites for conservation interventions, and to recommend priority actions.
- Conduct of **Assessment and Management Study of Live, Confiscated Wildlife in the ASEAN Region.**



COMMUNICATIONS, EDUCATION, AND PUBLIC AWARENESS

Webinar on Biodiversity and Preventing Future Pandemics (20 May 2020)

Discussion on the interlinkages between biodiversity and health; ASEAN's response to the Coronavirus disease (COVID-19) pandemic; nature-based solutions to prevent pandemics in the future; and ASEAN's efforts in combating illegal wildlife trade.



The poster features the ASEAN Centre of Biodiversity logo and a red circular emblem. It includes the text: "Welcome to the Webinar Biodiversity and Preventing Future Pandemics 20 May 2020 | 10:00 A.M. – 11:30 A.M. (GMT+8)". A list of speakers is provided with their names and titles: H.E. Kung Phook, Dr. Oscar Prinsodi, MPH, Dr. Theresa Mundita S. Lim, Prof. Zakri Abdul Hamid, Dr. Umbrishnan Pappappillan, Dr. Marian S. Deles Angeles, Ph.D., and Ms. Antoinette Taus Moderator. A sidebar on the right lists topics: "COVID-19 situation in ASEAN", "Biodiversity and zoonoses", "Health and Biodiversity in the Post-2020 Global Biodiversity Framework and developments", "Highlights of the ASEAN Scoping Study on Interlinkages of Health and Biodiversity", "Updates on ASEAN response to wildlife management to curb zoonoses", and "A socio-economist's point of view on integrating biodiversity solutions into the COVID-19 response". It also mentions "Livestreaming on facebook.com/ASEANBiodiversity" and a "#BiodiversityDay" banner.

Wildlife Conservation and Zoonotic Diseases, Halting Species Loss and Tackling Public Health in the ASEAN (19 November 2020)

Discussion on the links between animal and human health, livestock production, wildlife habitat protection, wildlife trade, zoonotic and emerging infectious diseases; and feasibility of using the One Health approach in integrating ASEAN's cross sectoral efforts in addressing COVID-19 and future pandemics.

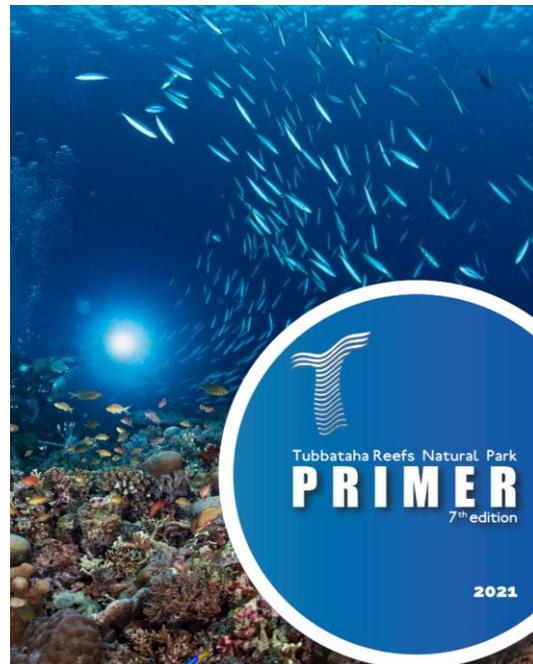
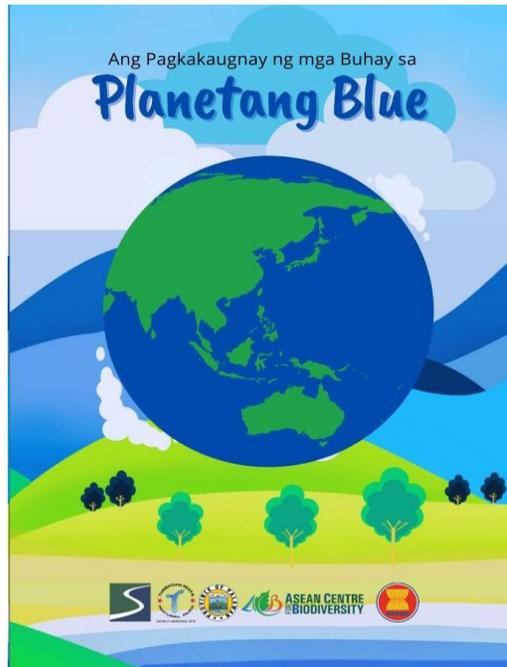


The screenshot shows a Zoom meeting grid with 16 participants. The title bar reads "WILDLIFE CONSERVATION AND ZONOTIC DISEASES: HALTING SPECIES LOSS AND TACKLING PUBLIC HEALTH IN THE ASEAN". A central banner says "ASEAN COMMUNITY OF OPPORTUNITIES FOR ALL". The bottom of the screen displays the date and time: "19 NOVEMBER 2020 | 10:00 (GMT+8) | Via ZOOM". Logos for the Wildlife Conservation Society, OIE (World Organisation for Animal Health), and the ASEAN Centre of Biodiversity are visible at the bottom.

COMMUNICATIONS, EDUCATION, AND PUBLIC AWARENESS

Regional Workshop on Protection Systems in Protected Areas in the ASEAN Region, 25-27 April 2019 in Kuala Lumpur Malaysia

- The ACB and the Ministry of Water, land and Natural Resources of Malaysia co-organised the regional workshop to allow PA superintendents and heads of enforcement units to share experiences, lessons learned and challenges in enforcement and different protection systems used to address these challenges.



Marine conservation awareness campaigns for students and marine park rangers

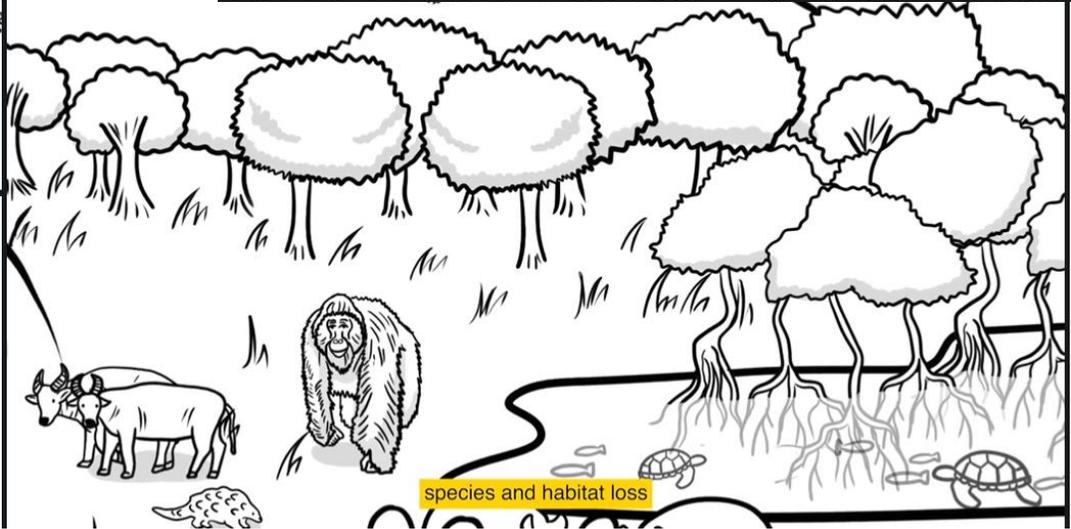


Advocacy and Awareness raising activities on Wildlife Conservation

- Social media
- Publications
- Exhibitions



Ongoing development of Informative Video on Zoonosis



CAPACITY BUILDING

Mainstreaming biodiversity into One Health Capacity Development project with FAO-RAP

This project is part of the Natural Resource and Environment Professional In-Service Field Training Program for Wildlife, Ecosystems, Biodiversity & Environment (FTP-WEBE) of the FAO-RAP, it intends to build the capacity of the natural resource management and environment sector professionals on One Health approach.



Species monitoring and wildlife law enforcement

Forest guards volunteers were provided capacity building/training on species monitoring and wildlife law enforcement at Mt. Apo and Mt. Hamiguitan Heritage Parks in the Philippines

Protected Area Management Effectiveness

Training of Trainers on METT4, Webinar on IUCN Green List, Workshop on METT-SMART alignment.

Regional Workshop on the DNA Barcoding of Common Vascular Plants in the Tropics 18-22 April 2022



The application of DNA barcoding technology is broad—from biodiversity research to wildlife law enforcement, and has the potential to support tracing the origin of the illegally traded wildlife specimens.

The workshop is designed to enhance the taxonomic capacity in the region on the standardised GTI DNA barcoding protocols developed by the University of Guelph and the traditional method of taxonomic identification wildlife species.



DNA barcoding and conservation

(iii) potentially to play a key role in environmental law enforcement on regulated species (CITES sp., IAS, pests, pathogens)

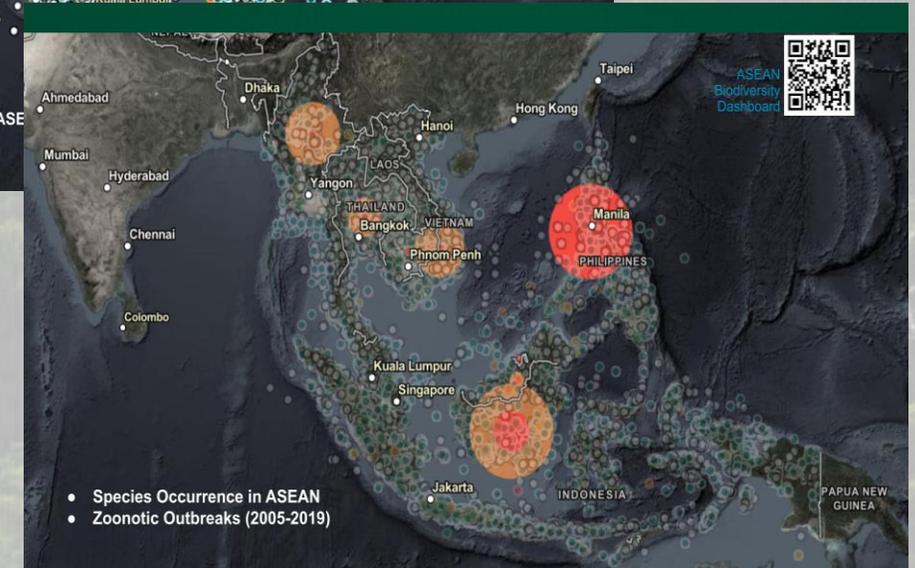
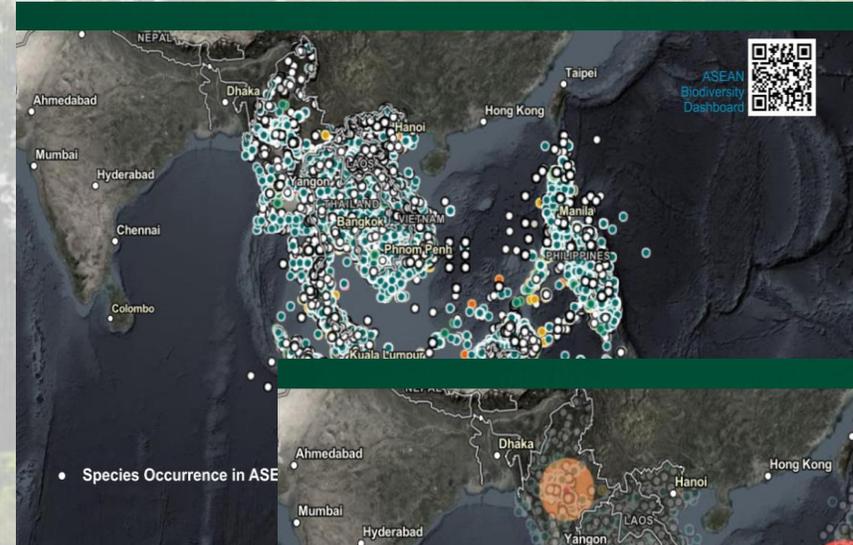


Images provided by FAO and CITES

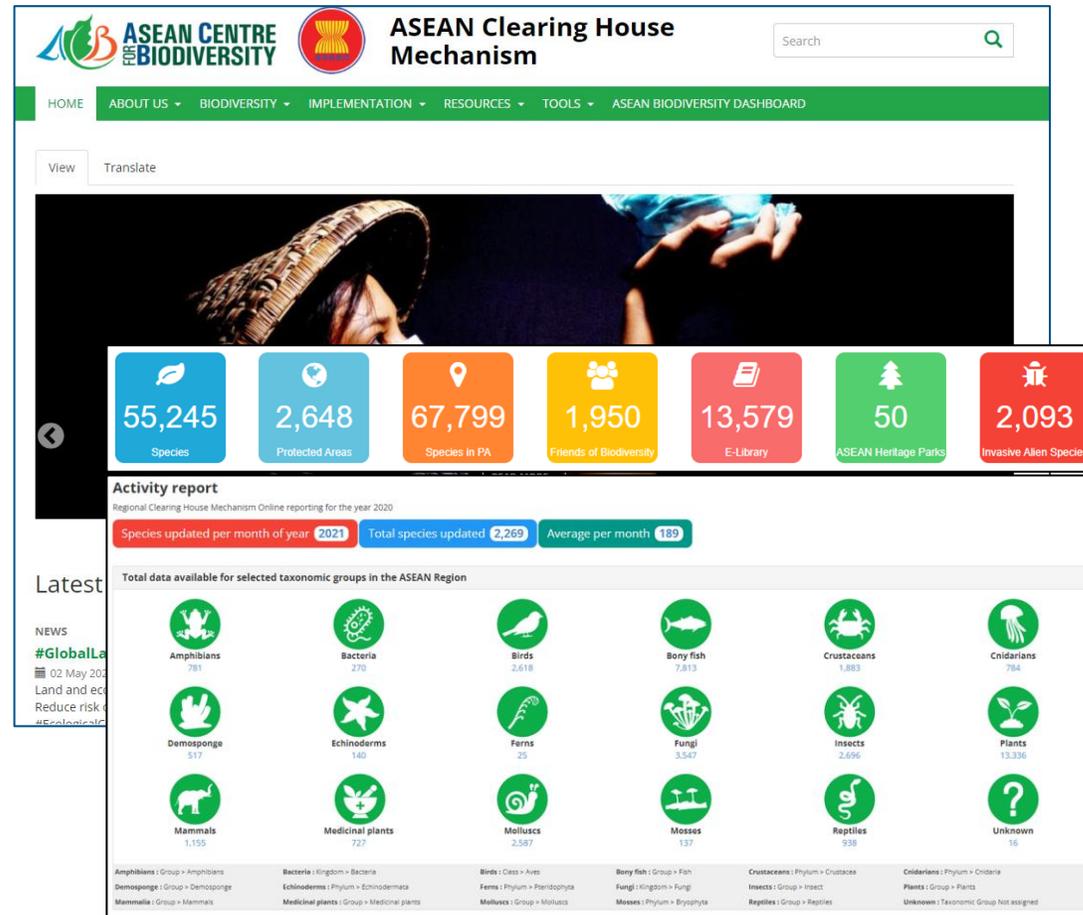
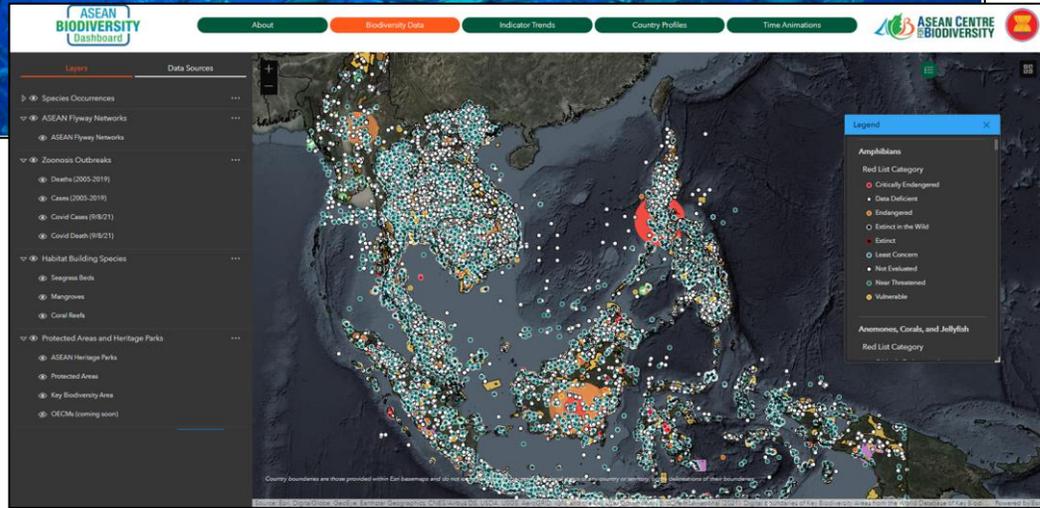
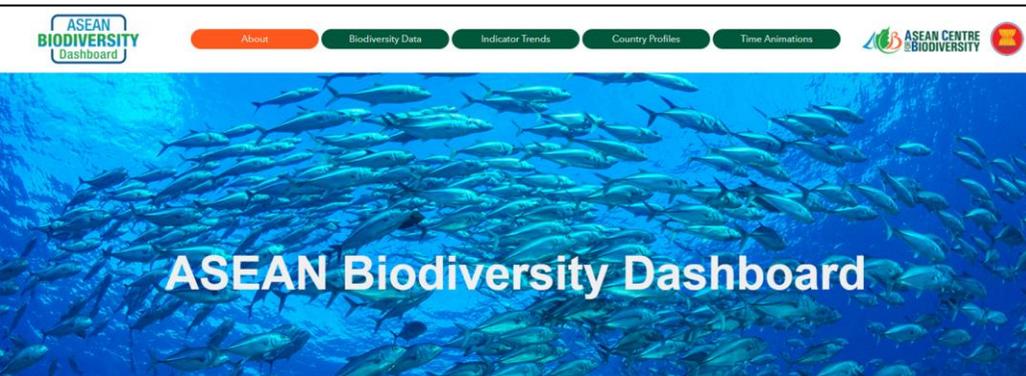


Information and data on zoonoses

The ACB, through its Biodiversity Information and Management Unit, is continuously updating maps on new and emerging infectious disease outbreaks (from 2005 to present) at the ASEAN Biodiversity Dashboard



Knowledge, Information, and Data Management



ASEAN
Biodiversity
Dashboard



ASEAN
Clearing-House
Mechanism



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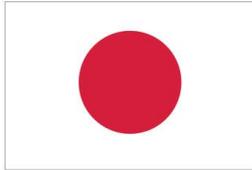
PARTNERS



NORWAY



Japan-ASEAN Cooperation



NatureServe



GLOBAL WILDLIFE CONSERVATION



Food and Agriculture Organization of the United Nations



Convention on Biological Diversity



Amazon Cooperation Treaty Organization



World Organisation for Animal Health
Founded as OIE

