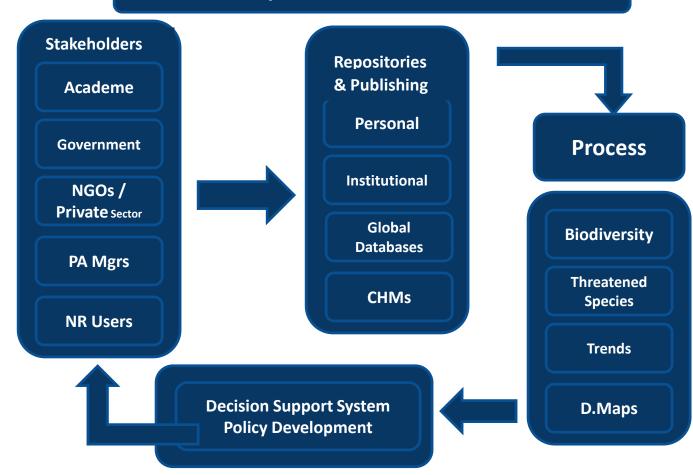




Biodiversity Information Sources and Uses





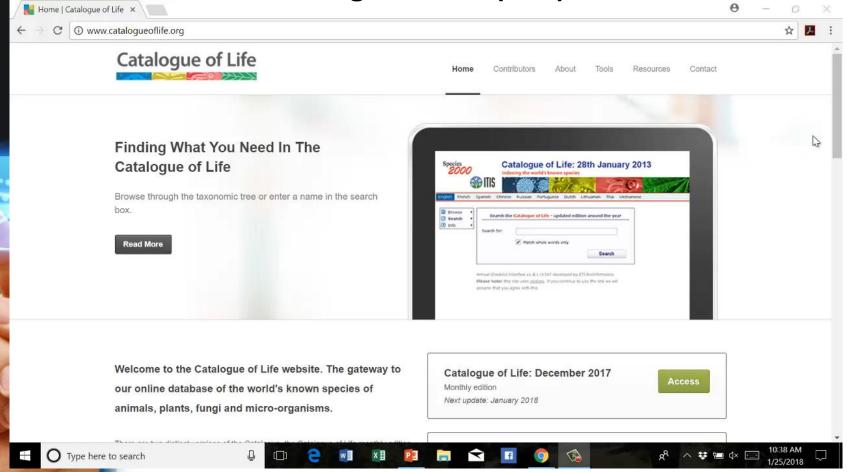
Challenges in Establishing the ASEAN CHM?



- Slow uptake of a culture of information sharing in the region
- Changing CHM focal points
- Low priority of CHM-related activities
 - Human resources
 - Funding, Equipment
 - Regular allocation
- Gaps in
 - Interoperability
 - Discoverability
 - Updating
 - Deliberate connection to NRs

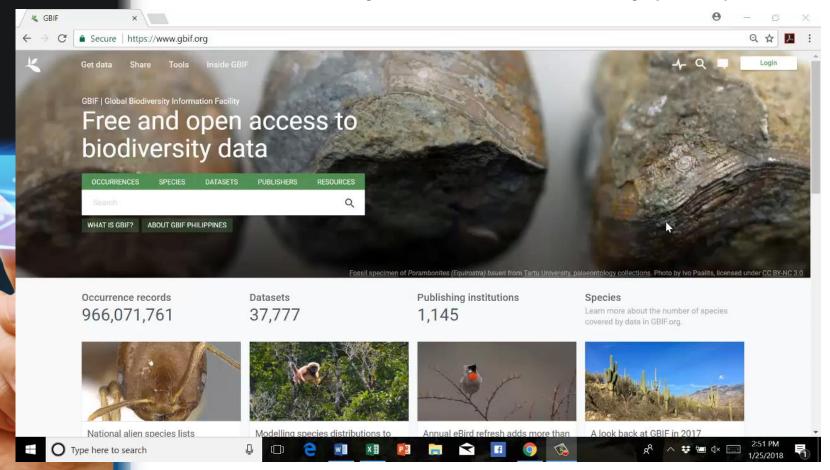


Catalogue of Life (COL)





Global Biodiversity Information Facility (GBIF)





Other Online Biodiversity Data Resources

- Online Checklists
- CITES
- IUCN Redlist
- National Redlists
- Global Invasive Species Database
- FishBase
- GBIF
- Encyclopedia of Life (EOL)
- iNaturalist
- Species in Arkive
- Ocean Biogeographic Information System (OBIS)

Off-line
Species
and
Protected
Areas
encoders



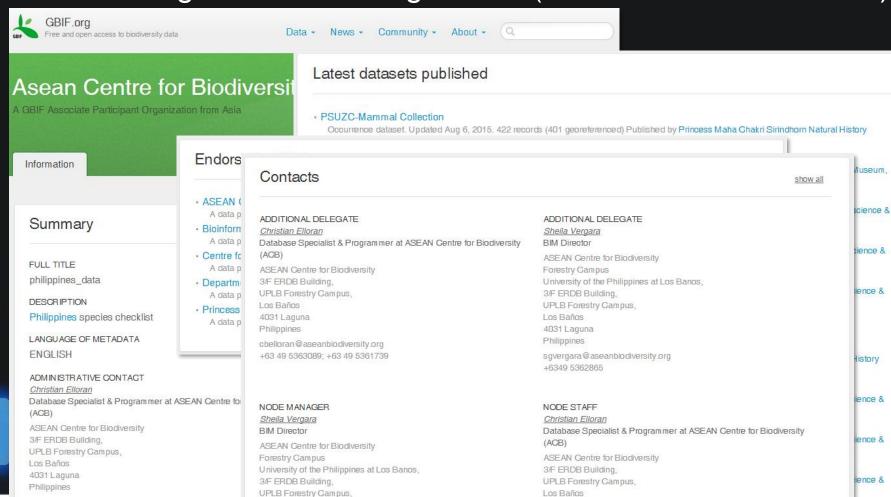




NATIONAL PROTECTED AREA ENCODER FORM

	MAIN MENU	National Protected	Area Collections	Designation and Legis	slation Protected	Area Maps		
	Read Me	WDPA ID	3843	e.g. 303060	IUCN Category	Ia - Strict Nature Reserve		_
		WDPA PID		e.g. 29827	Total Area	866.38571396		* e.g. in km2
₹	Protected Area Encoder	Country	Brunei Darussalam	*	Marine Area	0		★ e.g. in km2
		Locality	salapi	*	Marine	Yes		▼:
	Search	NPA Name	Anduki (Conservation	m) *	Governance Type	Current governance of site is not known		
		Original NPA Name	Local name not know	vn	Description			
M.	Protected Area Maps	Longtitude	114.39332606					
			e.g. 125.29053642 or 1 125.29053642	23.29053642 ;	Biodiversity Value			
	Vocabularies	Latitude	4.63586096 e.g. 6.94225571 or 6.94	225571-6 12245679	Threats			
		International Criteria	e.g. 0.9422337 1 01 0.94	223371, 0.12343070	Mgmt. Authority			
		Local Designation	Local designation no	known *	Mgmt. Plan			
	Data Definition	Status	Designated	*	Citation	cited		,
		Status Year	1948	* e.g. yyyy				
	Exit	Record 1 of 1521	1				Note	: * Required fiel
			Prev Next	Last 🕥	Save	Delete	Cancel	dsheet Mode

GBIF Integrated Publishing Toolkit (IPT Version 2.2.1-r5193)



Knowledge Products & Tools





Focus of ACB's KM

- Acquiring relevant knowledge relating to biodiversity
- Creative use of this knowledge
- Creating new knowledge from existing resources
- Sharing of knowledge resources
- Service the needs of AMS, partners and other ASEAN stakeholders

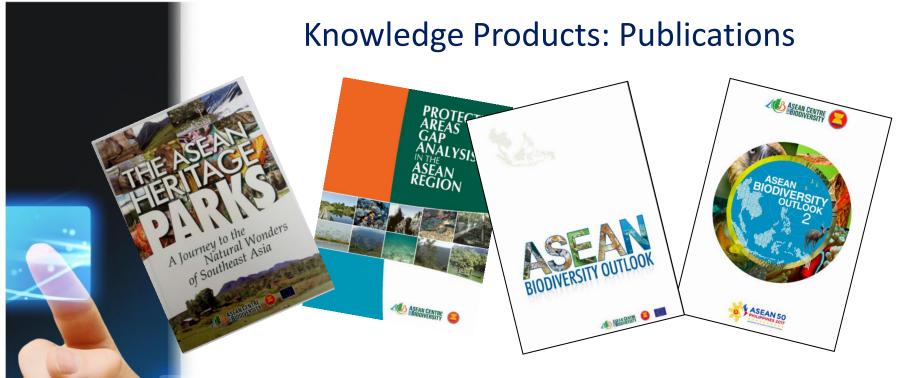


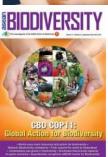
ACB KM products aim to:

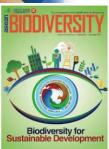
 Create awareness and better understanding on cross-cutting biodiversity concerns among target audiences in the ASEAN region.

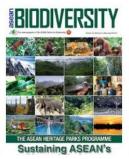
Target audiences:

- ASEAN Member States
- Academic/Research Institutions & Museums/ Scientific Institutions
- Partners and Donors
- Private/Business Sector
- Media

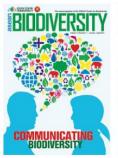












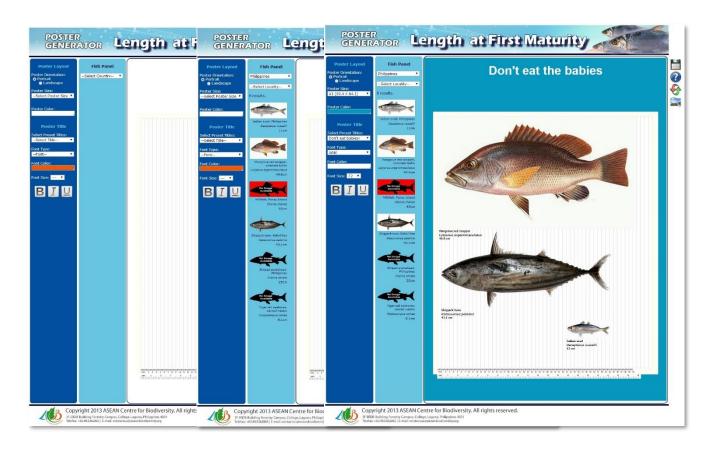








Right – sizing harvests using LFM data





Mobile apps

E-Library



ASEAN Heritage Parks

The E-Library holds copies of more than 11,000 references (journals, researches and articles) in various conservation and biodiversity related topics

The AHP App is a pocket reference version of the AHP book that ACB has published. It displays live and interactive maps of the ASEAN Heritage Parks.





E- library



Contains over 11,000 biodiversity related references and journals



Videos

Coastal and Marine



Endangered Species

Invasive Alien

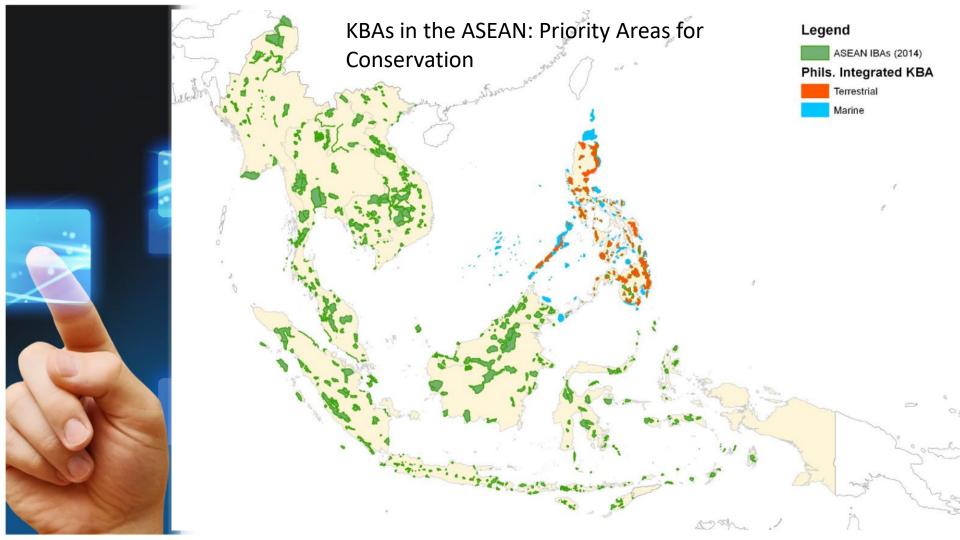


ASEAN CHM



How the ASEAN is faring





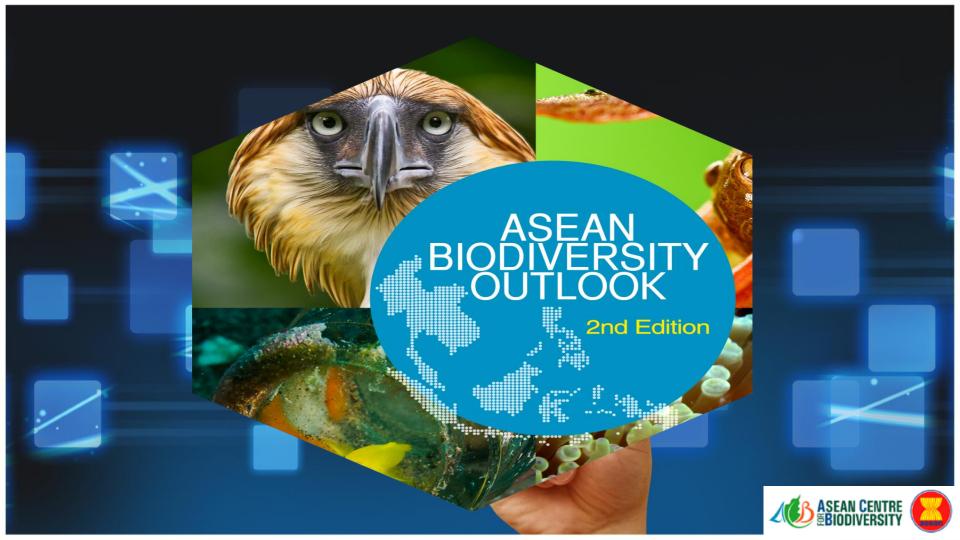


Pipeline publications of threatened species

- Plants
- Molluscs
- Coelenterates
- Crustaceans

Other Services

- Policies
- Friends of Biodiversity
- Lessons Learned
- KBA Maps per country
- Aichi Targets Explorer









It showcases progress and lessons learned on biodiversity conservation in the ASEAN region for the period 2010-2015

Referred from 5th National Reports and other relevant information derived from CHMs

The pressure-response-way forward framework was used to develop the ABO 2.



The ABO 2 was reviewed by

- the AWGNCB,
- ACB Governing Board,
- members of the Scientific Advisory Committee,
- AMS selected experts and
- the ABO 2 peer review group

Chapter 1. Progress in ASEAN's Efforts Towards Achieving the Aichi Targets: 5 NRs, Aichi Targets Taffic Lights

Chapter 2. ASEAN
Biodiversity in a Changing
Environment
2A:State of Ecosystems
2B: Crosscutting concerns

Chapter 3. Enhancing Implementation:
ASEAN's Priority Actions to Achieve the Aichi
Targets

Chapter 4. The ASEAN Biodiversity Outlook: 2020 and Beyond



- Infographics of 5th National Reports highlight the key achievements of AMS in efforts to achieve the Aichi Biodiversity Targets
- Summary of how AMS have mainstreamed biodiversity through communication, policy, sectoral development and master plans, national greening, conservation and rehabilitation programs, among others
- Aichi Targets Traffic Lights: Progress of the implementation of the Strategic Plan for Biodiversity 2011 – 2020 in the ASEAN Region
- Overcoming challenges to achieving the Aichi Biodiversity Targets

Brunei Darussalam

Academic sector has begun to estimate the In the forestry sector, sawmill monetary values of companies invest in more efficient wood processing techniques. Proper ervices, although this is not yet integrated into the integrated i market-based incentives are being studied. national accounting

and marine

protected

areas have

established

Environmental Impact

Assessment System is in

impacts on coastal and

marine ecosystems

place to mitigate adverse









There are increasing

management of the

resulting in

efforts in the sustainable

and public awareness educate stakeholders

ongoing to develop more





decentralized to the sub-national level.

ionitoring and

issues are integrated

into sub-national

workplans.

Payment for Ecosystem

Services has been identified for

pilot testing in some areas.

contribution of carbon stocks

are promoted through the Reducing Emissions from

Deforestation and

Forest Degradation

education on pollution









Published, including from excess nutrients, has been brought to levels that are not detrimental

For 2014-2019, the government aims to boost the population of 25 endangered species. Grandless by the control of 25 endangered species, Grandless by the control of 25 endangered species, Grandless by the control of 25 endangered species, grandless by the control of 25 endangered species and small various control of 25 endangered species and small various control of 25 endangered species and small various control of 25 endangered species and Scientific despirate, focuse pieg, ands, javen globen, orangutan, proboscis monkey, komodo dragos, fleti stating, maleo, lavan eagle, and small yellow overted caccatus. 25 botanical gardent have been established to conserve plant species.

an IAS strategy and action plan, and promulgated Miristry of sylronment and Forestry Decree Number P49/MENLHK/SETIEN/

Correlation of the Birselbares/bu Information Facility will make biodiversity information interoperable and facilitate informatio exchange across the

country

Environment and Forestry has drafted the decree regarding access to and equitable sharing from the utilization of wildlife genetic

developed for under the Finance

A strategic plan

mangroves and

Variety Protection also collects and preserves genetic material



useful and medicinal









The management of agriculture, fishery, and forestry are faced under the Ministry of Industry Resources to ensure these sectors are

Use of inorganic fertilizers is highly regulated and the use of organic fertilizers is encouraged.









Studies of invasive alien

species have increased

and government has

strengthened its

quarantine

service.

Threatened species are protected ollaboration with scientific and

to consolidat

regulations and

ensure effective

mplementation of

biodiversit

breeding centers and gene banks conserve genetic resources of farm animals and crops



protect vital ecosystems and recognize the rights and roles of local and indigenous





of biodiversity strategies are Wawasan 2035

Timber harvesting and related utilization of forest resources inside the country's peat swamp forests are not allowed.



Local and traditional knowledge, innovations, and practices are widely recognized and ntegrated into resource management regulations.

the National Biodiversity

under development

Strategy and Action Plan is



Clearing-House Biosafety CHM have been developed.

development

The Cambodia National Mechanism (CHM) and

managing







biodiversity.

Sectoral national budgets have been increased

and allocated for



effective management of fish sanctuaries, and increased annual



such as Mirnosa pigra, are addressed through the National

National Biodiversity Status Report















has been

the draft



Indonesia





The National Long-Term Development Plan 2005-2025 enhances biodiversity conservation as a foundation for development.



















areas.



utilization of water









10 ASEAN Biodiversity Outlook 2

Source: Indonesia Fifth National Report to the CBD

8 ASEAN Biodiversity Outlook 2

Source: Brunei Darussalam Fifth National Report to the CBD



been promoted through outrea activities, media training and environmental journalism. development of an environmental curriculum, and capacity building for government staff.

harvesting are being rever initiatives are in place to promote the conservation and sustainable use of biodiversity, Payment for Ecosystem Services, Villag-Forest Management Agreements connoct

Use Planning, Allocation and Planning ocess is being implemented to stabilize upland land use, prevent nabitat loss, and rejuvenate lost habitat. egrated Water Governance and Trade process has been established and Provincial Law ority river basins. The Enforcement Artion Plan has been officially endorsed. 15 of 24 national revised Water Law provides guidelines for preventing negative protected areas now have managemen plans and two Ramsar sites have been impacts. Research priorities for water bodies, watersheds, and aquifer recharge areas have been identified and a centralized

pollution database covering solid waste, hazardous material, soil

poliution, air and noise emissions,

projects that focus on risks and

being developed.

15

Reduction

Programme

The Carbon

and wastewater has been made for so targeted cities. Research

agriculture in northern Lao PDR are



Biodiversity values have been

integrated into policies on urban

and land use planning, disaster

and climate change,



Control measures have invasive plant and animal species. Improved regulations protect crops and

established and improved.

prod livestock in priority areas. The Biotechnology Safety Law has and f created opportunities to train nment staff, while addressing *



Improved forest management plans, community-based patrolling, agreements on community-based patrolling, agreements on management effective assessments have been implemented. Law enforcement, zouing, and SMART system training have been conducted. There are increasing efforts in capacity building and education of protected are staff. Stafe forest lands are being re-delineated to improve management and representativeness of ecosystems. ferbicide awareness and

management programs, establishment of fish

poentives to link local

onservation zones, and

veilhoods with ecosystem health have

seen implemented. The Forest and

and Use Planning, Allocation and



established to

Strategy and Artion Plan (NBSAP) 2016 2025 is being finalized. Technical groups monitor NBSAP activities and a National Steering Group f the Convention on Biological Diversity has been created. A Sub-Sector Working Group or Aprobodiversity has been

Management (FALUPAM) program was established for sustainable ecosystem incorporates traditional knowledge and anagement of upland landscapes reflect stomary use of natural resources. Wilage and District Conservation Areas have been shed for non-timber forest products while other projects have been developed based on the local management of agro-biodiversity sources. Hin Nam No National Protected Area

ncomorates traditional knowledge in decisionmaking processes. The PA has been divided into management blocks based on customary rights from 18 guardian villages, and village and access and use rights

Source: Lan PDR Fifth N





4,000

Prod

Integ

scho

patri

beer

Wild



Awareness and

education are integrated in the

The National Green Technology Policy was developed to accelerate

promotes sustainable

an economy that

The Heart of Borneo

Strategies and Action

Plans on Agricultural

Biodiversity

Utilization 2012 are among the

forestry areas.

The National Plan

of Action for the

Coral Triangle

Initiative and

maintain the

other plans

integrity of

ecosystems.

marine

plant varieties

The National Policy on

2015-2025 provides policy

directions for biodiversity

Biological Diversity

conservation

Initiative and National

The Sustainable Consumption and Policy (SCP) Support Malaysia Project 2012-2016 aims to provide inputs to the Malaysia Plan 2016-2020 and the SCP Blueprint.

Conservation and Sustainable strategies developed for the other sustainable management of agriculture, aquaculture, and

The Environmental Quality Act 1974 regulates soil and water pollution and



The Central Forest

Spine Master Plan

maintenance of

More areas

conservation

aside for

ecosystem services

continue to be set

ensures

Malaysia works with the International Marithme
Organization and other countries on the designation of
Organization and other countries on the designation of
protection because of recognized ecological,
socioeconomic, or scenific attributes and valuerability
to damage by international shipping activities.



Master plans for the protection of various sites in the country contribute to restoration and protection of important ecosystems and services.





Source: Malaysia Fifth National Report to the CBD



Malaysia



monitoring of

stronger law

nanagement plans,

inforcement, improved buffer

tone management, bans on liegal and unsustainable

agriculture, aquaculture, and

Measures to protect coral reefs include a ban on destructive

fishing practices; regular patrols and effective law enforcement:

management; establishment of

centers, and

promotion of

management

support; benefit-sharin mechanisms; buffe

sustainable fisheries

Multi-stakeholder

zone management; ecotourism; and

livelihood options will benefit loca

The National

of multiple

stakeholders.

Biodiversity Strategy

and Action Plan is

being implemented

with the participation

communities and

enhano

community-based fisheries

coastal and marine research

harvesting practices, biodiversity surveys and

research aim to improve

crestry resources

Organic

farming,

ecotourism, and other

livelihood

options provide

incentives to

piodiversity

Participatory approaches for community-based resource management and Environment

Impact Assessments are implemented to strengthen understanding of biodiversity values.



Various laws and fishery, and





MYANMAR

The government aims to adopt an integrated land use plan, establish a Land Use Commission, conduct environmental impact mining and 🥉 degraded forest areas to prevent further habitat



aims to

collaborate

countries to

impacts and

management of invasive

alien species

Stronger ex situ

sustainable food

services on

production;

promotion and

certification of

organic farming

capacity building;

hanks and greater

conservation will aid

the conservation of

the genetic diversity

of crops and livestock.

development of gene

programs; extension

monitor

with other

Government aims to reduce environmental farnage to coastal areas and ban destructive fishing practices





Biodiversity surveys, studies of priority species, and support of local communities will increase protection of critical and vulnerable ecosystems



Local and indigenous communities will

benefit from participation in buffer zone

management in protected areas; benefit

sharing programs; and legislative support

Survival of vulnerable species requires surveys o biodiversity status and studies of enforcement; increased ex situ programs; effective implementation and monitoring of biodiversity plans; and collaboration with multiple





Sustainable forest management; rehabilitation and protection of critical watersheds; land use planning; sustainable agriculture; and reclamation of mining areas will help increase carbon storage and strengthen ecosystem resilience.



The International Union for Nature is assisting the updating of the Strategy and Action Plan with provisions on sustainable financing.



Source: Myanmar Fifth National Report to the CBD

Progress in ASEAN's Efforts towards achieving the Aichi Bi

Myanmar is

monitoring the

progress of the

the country's

Mechanism.

Clearing-House

implementation of



Special attention has been paid to balancing cor and the economic needs of local communities Assessments of biodiversity-friendly livelihoods demonstration sites and trainings on the value of were conducted under the Partnerships for Biod Project, The United Nations Development Prog Global Environment Facility, Foundation for the I Environment, Philippine Tropical Forest Conserv Foundation and other partners provide support sustainable livelihood initiatives.

68 Protected Area Communitybased Management Agreements occupying a total area of 391.38 sq km has benefited 5,457 households and 15,568 individuals Majority of these households engage in agricultural



The National Clima

15 the adaptive capaci communities and ti

Action Plan seeks to

the adaptive capac

ecosystems to clima with initiatives being

implemented in col with the Global Gre

programs Legislation has been implemented to protect islands and island nassauss that are considered vulnerable and critical hotspots for biodiversity including the National Integrated Protected Areas System Mindoro, Palawan, Verde Island Pas Marine Corridor, and Sulu Sulawesi Marine Econogion, Under Executive Order 79 (2012), Island ecosystems are

Various programs focus on ensuring the protection, conservation and sustainable used of variethesis, recluding the Openiment of Environment and Natural Resources Where Basic Control Office-wide presidence of their basic master plans of 35 major rise basic materials. The letting loss programs are proposed and evaluations of improve, conserving protect and evaluations.



Source: Philippines Fifth National Report to the CBD

In Singapore, many differen interest groups have been conducting outreach activities targeted at the community. These include guided walks, seminars, workshops, exhibitions and competitions to engage the public and increase appreciation of biodiversity among Singaporeans. Some examples include:



community outreach event organized by the Biodiversity Roundtable (a group of stakeholders within the nature community, including NParks) for the conservation of Singapore's Natural Heritage.

Under the Species Singapore has made great effo intact, and to restore co programmatic thrust of NParks' Nature Conservation Master Plan, threatened species are identified and prioritized based on

endemism, conservation status and habitat range. This will help to guide actions towards increasing populations of the species programs are in place, such as the the instrument crab conservation working group, for the conservation of the critically endangered Singapore freshwater crab (Johora singaporensis). NParks also propagates rare native plants for reintroduction into their natural

Access and Benefit Sharing processes f non-commercia research is wel established, and the policy fo commercial research is current eing reviewed. Singapore is not ve a Party to the Nagova Protocol, b national consultations are currently ongoing to consider if Singapo

should accede to the Protoc

targets are being developed. In add NParks' Nature Conservation Mas Plan is intended to

The vision of mol the highest levels.

enhance greener

impact assessmen

planning as havin

possible). The Sust

national vision and

and incorporates t

environmental pro

and the Rail Comdor. Finally, refo

Various species in place, such as

clam restocking Sisters' Island N

n 2014, which is

act as a protecte

programs. Singa Urban Coastal N

Partnerships in I of East Asia to e

coastal environ

Ongoing reforestati

also contributes to also contributes to

also contribute to the

restoration efforts

Green and also Sing

Mars and Souther

Million Tree Plantin

greening urban info

rooftop gardens as

increases the capai

Detailed land use a

emented under

Thaila

Biodiversity value assessment has been conducted through the Payment for Ecosyster Services project

purposes is

concern.



The Royal Forest Department established the Model Comm Award, which recognizes the b application of local wisdom or community forests. The Green recognizes outstanding enviro conservation projects.

control measures for particular gear during the spawning season; prohibition on trawling within 3,000 meters seaward: preservation zones for aquatic animals. introduction of community-based mandature or community-based coastal governance;
Memorandum of Understanding with fish processors to prevent purchase of raw materials from fishing vessels during the breeding season; and increase in folimet mesh sizes to 4 cm.



Germplasm of plant resources, particularly of rare plants, are Genetic Conservation Project under the Royal Initiative of Her Royal Highness Princess Maha Chakri

About 12 species of fours in Thalland have become extinct, and many more are or the brink of estinction. An organic critification of its of the property of th germplasm of na certification of th



Source: Thailand Fifth National Report to the CBD

sustainable city projects.



Although

Thailand has vet

Nagoya Protocol,

mechanisms are

to ratify the

owledge, innovatio ocal communities; has leveloped a database on traditional knowledge; and encourages community participation in natural resource The Thailand Cl Mechanism is n http://chm-thai the NASAP hat on research and biodiversity.

the Mas

At least 20% o

and coastal ar

been desig

There are 22

national parks

Efforts to maintal

protect

Ram

strengthen inter-sectoral coordination between the environmental police, market management, customs, rangers, and fisheries authorities community participation and media particularly in wildlife law enforcement.

Viet Nam

Regulations to

loss of natural

habitats.

The government

a program to

control invasive

alien species up to

prevent and

aims to implement

control commercial

issued to reduce the

Urgent measures must be undertaken to protect species due to increased

pressures from habitat loss and

ragmentation, wildlife trafficking,

logging have been



Legal documents plans and policies and institutional structures will be reviewed to ensure the ensure the integration of biodiversity values.

There are increasing

efforts to strengthen

sustainable fisheries

counter pressures to

coastal and marine

Sustainable

the genetic diversity of

crop varieties and livestock breeds

management

measures have to be





models are being developed agriculture, equaculture, and







developed and implemented to address alarming declines in the health and coverage of coral has to be reviewed to reef, seagrass, and ddress gaps in coverage and effective management. mangrove ecosystems



Payment for Ecosystem Services; models for protected area management; access and benefit-sharing mechanisms; and



other measures are maintain ecosystem



Biodiversity strategies are being studied to address overlaps in responsibilities and regulations between key agencies and a fragmented approach to law





Wastewater treatment

systems and solid waste

management programs are

being monitored to reduce

other industrial practices.

Viet Nam recognizes

is stepping up

programs to

develop dimate

communities

its vulnerability to

dimate change and

pollution from unsustainable

agriculture, aquaculture, and

There is a need to have systematic surveys on biodiversity: develop a national biodiversity database; and create formal mechanisms for information sharing. The National Clearing-House Mechanism is not maintained. Viet Nam is currently working with the Japan International Conneration Agency on establishing a database for selected protected areas.

The National Biodiversity Strategy and Action Plan will include a priority to increase state conservation to include biodiversity inventories, monitoring systems to track biodiversity changes, database systems for information sharing and exchange, capacity building for technical staff, and other

biodiversity conservation activities.

Source: Viet Nam Fifth National Report to the CBD

Aichi Targets Traffic Lights Progress of the implementation of the Strategic Plan for Biodiversity 2011–2020 in the ASEAN region

Status of AMS Progress vis-à-vis the Aichi Targets

No.s. if not all of the ASEAN Stember Suites (ASIS) have taken the recessary actions forwards the achievement of this larget, as part of mational and local plans and programms and have registered positive endocrass in the Vill National Reports (DMR) to the Convention on Biological Diversity (RIDE).

At least half of ASS report that they have mobilized recessary actions towards the articlement of this toward.

The ASEAN Region supports globally significant terrestrial and marine biodiversity. It has the most diverse coral reefs in the world and is home to the megadiverse countries

of Indonesia, Malaysia and the Philippines. The region also spans several unique bio-geographical units such as Indo-Burma, Malesia, Sundaland and Wallacea. As an

tos than half of the ASEAN Nember States have mobilized initiatives leading towards the achievement of this Aichi Target and have not demonstrated related positive impacts.

jointh the distantant energy ex-cipces, and policies are reducing impacts on forests. Jonosoftsted through sudainable use sharlies and extilication in the property of the control of policies artification in the control of the control of policies reducing pressures through the diversification is included and promitting the cortegits and pactices shared convinemental care. The increase in population of the engine has before the increase of area, affected

AMS have embarled on various campaigns to raise awareness of biodives among all stakeholders industing the vonth, media, business, indigenous pero and local consumities, academic and scientific groups, nen-governm organizations, and policy makers to generate greater participation in conservation.







intergovernmental regional organization, ACB facilitates cooperation and coordination among the 10 ASEAN Member States (Brunei Darussalam, Kingdom of Cambodia, Republic of Indonesia, Lao People's Democratic Republic, Government of Malaysia, The Republic of the Union of Myanmar, the Philippines, Singapore, Thailand and Viet Nam) and with relevant national governments, regional and international organizations on the conservation and sustainable use of biological diversity, and the fair and equitable sharing of benefits arising from the use of such biodiversity in the

With information derived from key sources such as the Fifth National Reports, ASEAN State of the **Environment Report, and publications** from international and regional conservation organizations, ABO2 paints a regional picture on the progress of achieving the Aichi Targets in the ASEAN Region. The assessment of the implementation of each of the Aichi Targets is viewed through a regional looking glass while acknowledging the contributions of each of the AMS. These traffic lights endeavor to express a fair presentation of the state of the implementation of the Aichi Targets. demonstrate the links between targets, and suggest a means forward. They likewise present the challenges, which the region needs to overcome

on the road to 2020



The AMS have collectively established protection for 14 percent of terrestrial and 2.3 percent of coastal and native area under AMS pradictions. There is, and in the control of the AMS pradictions. There is, action with the second part of Acid Target 11, which is to "arounge their the effectively and equitably used connected systems of Plas, and other effective well connected systems of Plas, and other effective area-based commerciation encourse, and inequired into the wider landscapes and resoccapes". There is, are also also the action of the action of the action of proposedative, causings of the diversity of labilities in the ASAM region and increase coverage for entire protected areas.

The ASAN region bears the burden of heavy wildlife traffic. Despite the dissuanding of some criminal organizations and the criffication of time of Begal cargo, trafficking remains campaint. A member of species have gene cultica. This fitness is real and the relief of such pressures cannot and will not be abated if actions only once from within the region. The arolest deviation for widther time of the region.

establish an interoperable database platform em-the safety of these genetic resources and regul resemble storage facilities







Citical constem services in the ASDAN region are taken for granted, undervalued and fail to reflect in market prices. The sociationally encouragement of market prices. The sociational remains and contain evaluate forwards or ASDAN in secrecity are deprecised in this conjection. Actions storage and confident multitaining consplems services and confident multitaining completes services and proceedings of pricing for a confidence of the confid

Add have required by developing climate-smart publics, statings above, and each connectioners to obtain a stating above, and each connectioners to obtain a stating above, and each connectioners to obtain a stating and a statin

Six AMS have ratified / acceded to the Nagoya Protocol on acress and benefit sharing (ADS). Regional capacity building activities on the development of draft national ABS fermeworks and



ood from marine and cosstal resources and safe drinking water, which are vital to a rowing AEAN population, continue to be undermined by poor resource valuation, offlation, and poor management. AMS have been more responsive to climate change sucs with the development of climate-smart policies, commitments to reduce





Nine out of ten AMS have developed and submitted their respective NESAPs to the CBD. All of these nine submissions have undergone revisions and updating and two have submitted post-2010 versions that take the Strategic Plan for Biodiversity (2011-2020) into account. All AMS have submitted their Fifth National Reports to the CBD.

True endangerment el traditional knowledge and customary use may be fet in two AMS, based on the induces of lingualid diversity. The change from the use of geographically forms threatens the existence of traditional knowledge associated with local languages. Efforts of RCS in protecting biodewers'threaugh Troly Torots and watersheets' have been duly ecognized.

Half of the AMS have taken initiatives to utilize their National CHMs as biodiversity information repositories and the rest are in various stages of organizing their CHMs towards full fluxed mainly. A regional CHM was developed to provide an interuperable framework and the means to share and analyze data of the regional CHM.

Recognition of the importance of biodiversity conservation has sourced financial allocations for various activities from local to the national level, although not always in an organized fashion nor streamlined with National Plans and Programmes and the Strategic Plan for Biodiversity.



Two countries in the region have post-2010 versions and all have submitted their St. Natural Reports to the CSB. While there is increasing recognition of the role of indigenous persiples across the region and their traditional knowledge in biodiversite conservation, there remain haddances to their inclusive participation. For AMS has a biodiversity to the contract of the contract of their inclusive participation. For AMS has a biodiversity to the contract of the contract of their inclusive participation. nformation repositories while others are in varying stages of developing CHMs. ACB has leveloped a projectal CHM to share and analyze data at the projectal level. AMS have



IMPRINT

ASEAN Biodiversity Outlook Second Edition, 2016. ASEAN Centre for Biodiversity

The poster template was provided by GIZ on behalf of the German Federal Ministry for Economic Cooperation and Development (BMZ). The above mentioned organizations do no take any responsibility for any content of the poster.

ASEAN CENTRE BRIDDIVERSITY

For further reading, please use the QR-



Aichi Targets Traffic Lights:

Progress of the implementation of the Strategic Plan for Biodiversity 2011–2020 in the ASEAN Region



Most, if not all of the ASEAN Member States (AMS) have taken the necessary actions towards the achievement of this target, as part of national and local plans and programmes and have registered positive outcomes in the 5th National Reports (5NR) to the Convention on Biological Diversity (CBD).



At least half of AMS report that they have mobilized necessary actions towards the achievement of this target.



Less than half of the ASEAN Member States have mobilized initiatives leading towards the achievement of this Aichi Target and have not demonstrated related positive impacts.

Strategic Goal A: Address the underlying causes of biodiversity loss by mainstreaming biodiversity across government and society



Awareness or biodiversity values: By 2020, at the latest, people are aware of the values of biodiversity and the steps they can take to conserve and use it sustainably.

ASEAN Member States are undertaking various types of campaigns to promote awareness and understanding of biodiversity, its values and the actions that people can take to conserve it. Several campaigns focus on the youth sector. Other target audiences identified in the AMS' 5NRs include the government, local governments, non-government organizations, and the private sector.

Poaching, pollution in various forms and sources, conflict of resource use e.g. mining and protected areas, and other threats to biodiversity in the region, continue to be reported and reflect the lack of understanding of some sectors that remain uninformed and unconvinced of the need for biodiversity conservation. AMS need to institutionalize their national CEPA strategies through multi-sectoral approaches that involve a wider stakeholdership, including countries and regions outside of the ASEAN region, that need to be made aware of the global implications of biodiversity loss in the ASEAN. Champions for each of the Aichi Biodiversity Targets need to be mobilized in each AMS.





Integration of biodiversity

By 2020, at the latest, biodiversity values have been integrated into national and local development and

poverty reduction strategies and planning processes and are being incorporated into national accounting, as appropriate, and reporting systems.

values in their national development plans. Other AMS are in various stages of reviewing national frameworks, polices, and international treaties to consider the necessary alignments. There is a need to expedite this process as several other Aichi Biodiversity Targets depend on the integration of biodiversity into national and local development plans and strategies.

Half of the AMS have now recognized biodiversity



Incentives:

By 2020, at the latest, incentives, including subsidies, harmful to biodiversity are

eliminated, phased out or reformed in order to minimize or avoid negative impacts, and positive incentives and safeguards for the conservation and sustainable use of biodiversity are developed and applied, consistent and in harmony with the Convention and other relevant international obligations, taking into account national socio economic conditions.

demonstrated in a variety of forms and for different stakeholder groups. These include recognition and awards for exemplary environmental performance of private corporations; dedication, innovation, and commitment of park staff; model communities; and outstanding projects. Some AMS have incorporated incentives into policy and in the implementation of projects. However, certain concessions and auxiliary rights afforded to some sectors of industry (industrial forests and mining) need to be re-examined. AMS should consider a review of subsidies harmful to biodiversity. It is important to note that there is a need to scale up the utility of incentives to pursue the attainment of other Aichi Biodiversity Targets, such as 4, 7 and 15, as these call for reforms in policy to favor biodiversity-friendly technology in agriculture and accelerate the region's transformation towards the

Incentives for biodiversity-friendly performance are



production and consumption: By 2020, at the latest, Governments, business and stakeholders at all levels have taken steps to achieve or have implemented plans for sustainable production and consumption and have kept the impacts of use of natural resources well within safe ecological limits.

AMS report that projects and policies are reducing impacts on forests, demonstrated through sustainable use strategies and certifications, investments in enforcement of policies against trafficking of threatened species, reducing pressures through the diversification of livelihoods, and promoting the concepts and practice of shared environmental care.

Steps taken towards sustainable production and consumption include the development of policies such as the Sustainable Consumption and Production Policy Support of Malaysia. Other AMS promote sustainability as a shared responsibility among government and business and monitor the harvest and use of forest, aquatic, and agricultural products.

On the other hand, the population of ASEAN has increased by 72 percent since 1980, and this has prompted the increase in areas allocated to food, timber, and natural resource production, as well as the acquisition of technologies to improve agricultural efficiency. Such demands impose corresponding increases in inputs such as pesticides and herbicides that impact adjacent habitats. The introduction of genetically modified varieties in the region has to be further evaluated against trends in fertilizer, herbicide, and pesticide inputs. It is imperative that policies are reformed to make sure that all technology in the region is sustainable in the near future. Business as usual will result in the failure of the region to achieve this Target.

Strategic Goal B: Reduce tl

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Habitat loss. fragmentation and degradation: By 2020, the rate of loss of all natural habitats, including forests, is at least halved and where feasible brought close to zero, and degradation and fragmentation is significantly reduced.

Biodiversityfriendly agriculture, forestry and aquaculture: By 2020 areas under agriculture, aquaculture and forestry are managed sustainably, ensuring conservation of biodiversity.



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Control of invasive alien species

By 2020, By 2020, invasive alien species and pathways are identified and prioritized, priority species are controlled or eradicated, and measures are in place to manage pathways to prevent their introduction and establishment.

AMS are aware of the existence of IAS through information from academic institutions and readily available materials made accessible by: International Union for Conservation of Nature-Invasive Species Specialist Group (IUCN-ISSG), Centre for Agriculture and Biosciences International (CABI) (global resources), and the ASEAN Clearing-House Mechanism (regional resource). Knowing the existence of such threats partly addresses the requirements of Target 9. There is, however, a need to identify the pathways of their introduction, plans to prevent their establishment, and agreed actions towards their planned eradication. Cambodia, Philippines, and Indonesia have drafted their National Invasive Species Strategy and Action Plan (NISSAP). Malaysia has operationalized its National Action Plan for Prevention, Eradication, Containment and Control of IAS since 2008. Thailand has established a list of IAS and developed national IAS control measures. A strong legal regulation system on

biological import and export is in place in Viet Nam.





Sustainable exploitation of marine resources:

By 2020 all fish and invertebrate stocks and aquatic plants are managed and harvested sustainably, legally and applying ecosystem based approaches, so that overfishing is avoided, recovery plans and measures are in place for all depleted species, fisheries have no significant adverse impacts on threatened species and vulnerable ecosystems and the impacts of fisheries on stocks, species and ecosystems are within safe ecological limits.



Pollution reduction: By 2020,

pollution, including from excess nutrients. has been brought to levels that are not detrimental to ecosystem function and biodiversity.



Coral reefs and other repo vulnerable and ecosystems: sedir By 2015, the varia multiple indis anthropogenic cage pressures on of p coral reefs, and cause other vulnerable bette ecosystems the e impacted by climate change actio demo or ocean acidification are segre minimized, so as majo to maintain their resol integrity and indus functioning. susta

Target 10 is interpreted to cover coastal habitat building species including coral reefs, seagrass meadows, mangrove forests, and associated marine habitats. Annual economic benefits from these resources are estimated to exceed USD 2 billion per year. There is large-scale acknowledgement of the importance of these vulnerable ecosystems and efforts for their integrated and collaborative conservation are underway. Some AMS have reported modest improvements in the condition of coral reefs and gains in mangrove reforestation. Island ecosystems are now given special consideration through policy and acknowledged in the operationalization of the Coral Triangle Initiative on Coral Reefs, Fisheries, and Food Security, to which four AMS have signed on to. However, some AMS reported declining coral reef cover and seagrass habitat health related to gaps in governance. land based sources of stress (sedimentation, unsustainable fishing practices, excess agricultural inputs), coral harvesting and exporting, and issues related to conflicts in coastal and marine area use (aquaculture, infrastructure). The 5NRs indicate that land-based sources of threats, destructive fishing practices, and increasing coastal populations, that drive the loss of coastal and marine biodiversity, have not abated. To minimize these threats and complex factors. achieving Target 10 requires making coastal communities aware of the values of vulnerable ecosystems (Target 1). Recommendations to further decrease pressures on vulnerable ecosystems include integrating costs of maintaining coastal and marine ecosystems in resource management, establishing proper incentives and penalty systems, and reducing land-based sources of pollution and sedimentation.



Strategic Goal C: To improve the status of biodiversity by safeguarding ecosystems, species and genetic diversity



By 2020, at least 17 percent of terrestrial and inland water, and 10 percent of coastal and marine areas, especially areas of particular importance for biodiversity and ecosystem services, are conserved through effectively and equitably managed, ecologically representative and well connected systems of protected areas and other effective area-based conservation measures, and integrated into the wider landscapes and seascapes.



known threatened species has been prevented and their conservation status, particularly of those most in decline, has been improved and sustained.

The AMS have collectively established protection for 13 percent of terrestrial and 2 percent of coastal and marine areas under AMS jurisdictions. Some AMS have exceeded the 2020 targets for percent coverage and several others have committed to conserve areas beyond the percentages suggested by Target 11. Within the context of the ASEAN Heritage Parks Programme, a number of AMS have taken steps to improve site management by updating and revising management plans to broaden the scope and integrate other important issues such as climate





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diversity.

Genetic diversity of socio-economically and culturally valuable species: By 2020, the genetic diversity of cultivated plants and farmed and domesticated animals and of wild relatives, including other socio-economically as well as culturally valuable species, is maintained, and strategies have been developed and implemented for minimizing genetic erosion and safeguarding their genetic

In livestock, eight percent of endemic pig, chicken, and cattle are critically endangered, five percent have gone extinct. In situ and ex situ efforts are in place to conserve native and wild varieties of crops and livestock. Several gene banks have been established for important crops and livestock species. Out of 7.4 million accessions of plant genetic resources for food and agriculture maintained globally, eight percent are safely stored in gene banks in the ASEAN region. Moreover, evaluation and characterization of these accessions are also being done. There is a need to ensure the safety of these genetic resources and regularly monitor storage facilities. Furthermore, there is a need to establish an interoperable database platform that can access all the information and data available for both plant and animal genetic resources in ASEAN. Likewise, there is a need to document and disseminate best in situ practices of farmers in the region. To date, only one AMS has joined the FAO initiative on Globally Important Agricultural Heritage Sites (GIAHS). Nine potential GIAHS in four AMS have been identified. Seven AMS are Parties to the International Treaty on Plant Genetic Resources for Food and Agriculture (ITPGRFA).



includes elimination of threats within national jurisdictions, among AMS, and other regions of the world. The approach needs to be augmented with active conservation action both *in situ* and *ex situ* and considered in the delivery of other Aichi Biodiversity Targets.

Strategic Goal D: Enhance the benefits to all from biodiversity and ecosystem services



By 2020, ecosystems that provide essential services, including services related to water, and contribute to health, livelihoods and well-being, are restored and safeguarded, taking into account the needs of women, indigenous and local communities, and the poor and vulnerable.

Critical ecosystem services in the ASEAN region, such as access to and availability of fresh water, coastal and marine capacity to support livelihoods, and food for a growing population, are taken for granted, undervalued and fail to reflect in market prices. On water supply, the annual per capita water resources of 12,980 cubic meters in the region are close to double that of the world average. However, this resource is threatened by lack of access to safe drinking water, poor sanitation, chemical pollution, sea-level rise, and gaps in proper resource valuation in policy and practice. Some AMS have engaged in massive reforestation actions, region-wide campaigns, and management

approaches deemed necessary to ensure a continuing supply in the





Access and Benefit Sharing:

By 2015, the Nagoya Protocol on ABS is in force and operational, consistent with national legislation. Two AMS have ratified and four have acceded to the Nagoya Protocol on access and benefit-sharing (ABS). Regional capacity building activities on the development of draft national ABS frameworks and enhancement of AMS' regulatory and institutional frameworks on ABS have been conducted. Regional cooperation on capacity building activities for AMS to develop and implement national measures on ABS will be sustained.



Climate change and resilience:

and the contribution of biodiversity to carbon stocks has been enhanced, through conservation and restoration, including restoration of at least 15 percent of degraded ecosystems, thereby contributing to climate change mitigation and adaptation and to combating desertification.

developing climate-smart policies, strategic plans, and made commitments to reduce emissions, reduce vulnerability to climate change impacts, increase awareness, improve the capacity of agencies, and increase resilience of ecosystems.

Restoration efforts in the form of large scale reforestation are in the midst of implementation in at least three AMS. There is a need to focus efforts in the restoration of ecosystems with greater CO₂ sequestration value, such as mangrove forests, to attain a better value for effort. The need for energy in the region will continue indefinitely but dependence on fossil fuels and other non-sustainable sources of energy should no longer be considered. AMS should expedite the transition towards sustainable energy through policies that remove incentives to use fossil fuels, enable the consideration of its externalities in the market system, and favor a clean energy future for the ASEAN region.







By 2020, knowledge, the science base and technologies relating to biodiversity, its values, functioning, status and trends, and the consequences of its loss, are improved, widely shared and transferred, and applied.

Half of the AMS have taken initiatives to utilize their National Clearing-House Mechanisms (CHMs) as biodiversity information repositories and the rest are in various stages of organizing their CHMs towards full functionality. The AMS collect biodiversity knowledge for a number of purposes and document these in variable formats. They are thus not available in interoperable forms that ease sharing and use for regional and global analyses. A regional CHM was developed to provide an interoperable framework and the means to share and analyze data at the regional level.

AMS should avail of regional partnerships that promote biodiversity information management, increase regional capacity, and optimize the use of national CHMs as knowledge platforms.



By 2020, the tradit innovations and pr

and local commun conservation and s biodiversity, and th biological resource subject to national international oblig integrated and refl implementation of the full and effective indigenous and loc relevant levels.



Resources in support of the Convention: By

2020, at the latest, the mobilization of financial resources for effectively

implementing the Strategic Plan for Biodiversity 2011-2020 from all sources, and in accordance with the consolidated and agreed process in the Strategy for Resource Mobilization, should increase substantially from the current levels. This target will be subject to changes contingent to resource needs assessments to be developed and reported by Parties.

Recognition of the importance of biodiversity conservation has sourced financial allocations for various activities from local to the national level, although not always in an organized fashion nor streamlined with National Plans and Programs and the Strategic Plan for Biodiversity 2011–2020.

As a positive action towards this target, Viet Nam has identified a range of options to finance biodiversity conservation that includes PES, Carbon Finance, Reducing Emissions from Deforestation and Forest Degradation (REDD+), biodiversity offsets, contributions from the private sector. implementation of the Biodiversity Finance Initiative (BIOFIN) has lent a structure by which support for conservation activities lined up in the NBSAPs of four AMS are identified.

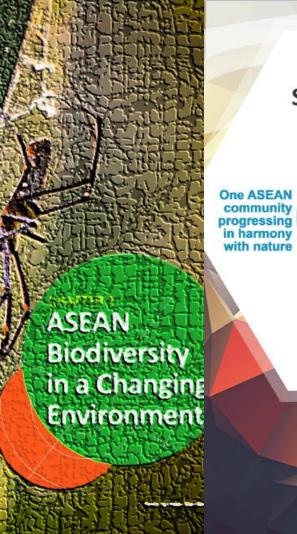




2A State of Ecosystems

- Presents a picture of the state of the region's forests, agrobiodiversity resources, inland waters, and coastal and marine resources
- Presents various programs and activities that are underway that aim to halt the degradation and loss of vital habitats and ecosystems





Forest: Still an overdrawn natural resource



Forest Vitality

Infrastructure development and forest encroachment



Increasing demand for wood, fuel, and paper products

Healthy Environment







Status

and **Trends**

0.7% decrease in ASEAN's forest cover per year from 2000-2015



Landscape restoration and ecological and spatial principles in reforestation and rehabilitation programs



Effective protected area

programs

Protection of old growth forests

Ways Forward

ASEAN Forestry Master Plan



Forest certification and labelling



Green economy



Reducing Emissions from Deforestation and Forest Degradation, The Bonn Challenge, and pledges on restoration





Forest defragmentation and habitat loss



By 2100, 70%-90% loss in habitat area





PRESSURES



Conversion of agricultural lands



Decline in pollination services



Invasive Alien Species



STATE



Increased use of pesticides

2006: 42,773 tonnes 2013: 64,311 tonnes Agricultural Biodiversity:

Providing genetic diversity to enhance and sustain agricultural productivity



Make crucial information available



Strengthen ex situ and

in situ conservation

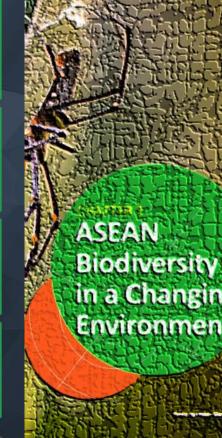


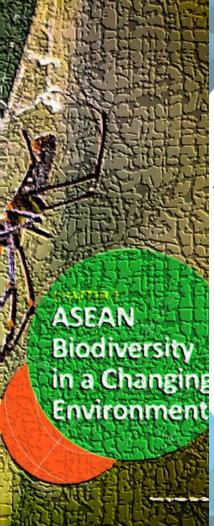
Status and trends of pollinators

Ways Forward

Develop/establish ASEAN Regionally Important Agro-Ecological Heritage Systems (ARIAHS)

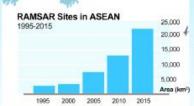
> Improve the ASEAN policy framework for agricultural biodiversity







Threats to ASEAN's lakes, rivers, and peatlands Infrastructure development Source: AMS Fifth National Reports to the CSD



Ways Forward

Establish a regional agenda that aligns social and political interests with responsible governance of inland

Increase interest at all levels of governance in massive reforestation to reduce erosion and impacts from flooding and landslides.



Assess the importance and total economic value of inland waters and their benefits to the economy and the communities directly dependent on these areas for their livelihood.

Strengthen policies and laws on the management and sustainable use of inland waters and their resources.





Implement information dissemination program for policy makers and the general public on the values of inland waters in coordination with ASEAN Member States.

Employ an ecosystem-based approach to management.



ASEAN's Response

AMS with policies on wetland conservation

- Indonesia
- Malaysia Philippines
- Thailand
- Viet Nam

25%

of the remaining tropical peat swamp forests in ASEAN are in designated protected areas.

Source: Biodiversity and Conservation of Tropical Peat Swamp Forests

out of 10 AMS are parties to the Ramsar Convention on Wetlands designating a total area of 18,007 sq km of inland wetlands.







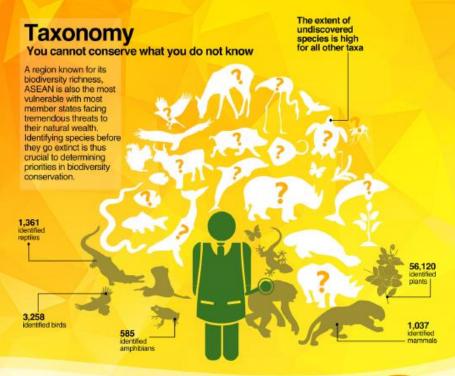




2B Cross-cutting Concerns

- Demonstrate challenges in the areas of taxonomy, access and benefitsharing, wildlife conservation, invasive alien species, climate change, expansion of cities, and economics and business
- Presents opportunities for cooperation within the region and with partners in the international community and ecosystems





Efforts to Strengthen Taxonomy in ASEAN







Ways Forward



Assess the Global Taxonomy Initiative Regional Action Plan 2010–2015

Chart the future of taxonomy in a Regional Action Plan for Taxonomy 2017–2020





Survey taxonomy studies and research in ASEAN

Develop a communication, education, and public awareness plan for taxonomy in ASEAN





Make taxonomic information interoperable among databases in ASEAN Member States

Improve ex situ programs in the region



Access and Benefit-Sharing

Ensuring the fair and equitable sharing of benefits from the utilization of genetic resources

ABS refers to the agreement between user and provider in the access of genetic resources and how benefits are shared between them.



Prior and Informed Consent (PIC)

seeks permission from appropriate representatives and shares information on the purpose for accessing genetic resources and traditional knowledge.



Mutually Agreed Terms (MAT)

states monetary and non-monetary benefits in exchange for access as agreed between user and provider.



Traditional Knowledge

refers to knowledge of indigenous peoples and local communities that are rich sources of information for bio-product development.



Compliance

is observance of obligations to ensure sharing of benefits when genetic resources leave a provider.

Ways Forward



Opportunities



Research and Development: Advances in biotechnology



Potential Income Generation:

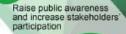
Creation of products worth billions 6 of 10

ASEAN Member States are Parties to the Nagoya Protocol



developing national ABS policies

Protect genetic resources from misappropriation and misuse





Promote regional cooperation and capacity building



Implement legislation and administrative or policy measures on ABS



Formulate national regulatory and institutional frameworks on ABS



Wildlife Conservation

Protecting ASEAN's natural heritage

ASEAN's Response



Develop and implement wildlife conservation laws

> Strengthen cooperation on law enforcement and illegal wildlife trade



Increase area and number and improve effective

Prepare endangered species action plans



transboundary conservation



measures



research on species at risk



Improve communication. education, and public awareness campaigns



Develop breeding and captive propagation programs

Allies in Wildlife Conservation



UNODC

















Invasive Alien Species: Keeping intruders out

















Top 5 Invasive Alien Species in the ASEAN Region







Capacity Building on Taxonomy Effective control and management measures can only be implemented when exotic species are correctly and properly identified.

Ways Forward

Information Sharing through the ASEAN CHM ASEAN Member Stries should make all MS-related information available in information sharing platforms such as the Clearing-Hozae Mechaniem.

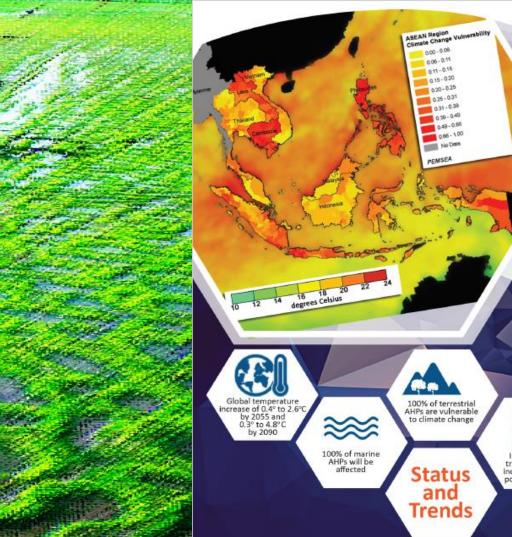


Awareness Raising Understanding the impacts and implications of IAS can help intensity efforts on IAS prevention, control, and

National invasive Species Strategy and Action Plan (NISSAP) To prevent the spread of IAS in natural habitats, all ASEAN Member States eround have their own NISSAPs, To date, only Cambook, indonests, and the Philippinia have diaflad their NISSAPs.

Stockholers by Target 9 species and their pathways are identified, priority species are controlled or eradicated, and measures are in place to manage pathways to prevent their introduction and establishment

In-depth research, survey, and analysis of priority (AS in the ASEAN region including its pathways of introduction, should be conducted.



Climate Change and Biodiversity Seeking solutions to ensure resiliency

Ways Forward

negative impacts of climate change



Promote new knowledge, practices, and technologies to adapt to climate change

Innovate to mitigate the Implement disaster risk reduction plan consistent with National Biodiversity Strategy and Action Plans



Provide local and national action plans complemeting the ASEAN Socio-Cultural Community blueprint



Enhance projects and policies on Reducing Emissions from Deforestation and Forest Degradation and biodiversity conservation







Industry and transportation increase carbon pollution levels

> Distribution of plant and animal species shifts to higher altitude



Altitudinal migration of forests, extinction of many species, and reduction in diversity of ecosystems



Adverse impacts on terrestrial and coastal marine ecosystems, food production, human health, and livelihood, among others

Cities and Biodiversity: Nature in tight spaces

Challenges

Many cities in the ASEAN region were established near biodiversity – rich habitats. Unregulated use of natural resources have depleted these habitats, and, thus, are now categorized as critical biodiversity habitats.

Rapid urban growth could lead to more land conversion.

Poor understanding of the benefits of having rich biodiversity in the city.

Environmental considerations, including biodiversity, are accorded a low priority compared to economic and industrial progress.

- Conserving small areas of forests, floodplains, estuaries, and coastlines protects species and strengthens ecosystems services.
- ✓ Maintaining biodiversity keeps cities cool.
- ✓ Nature areas provide habitats for species.
- Greening idle areas with urban farming helps supply food and employment, and promote appreciation of biodiversity.
- Green areas, such as parks, clean the air and calms the body and mind.



ASEAN Initiative on Environmentally Sustainable Cities



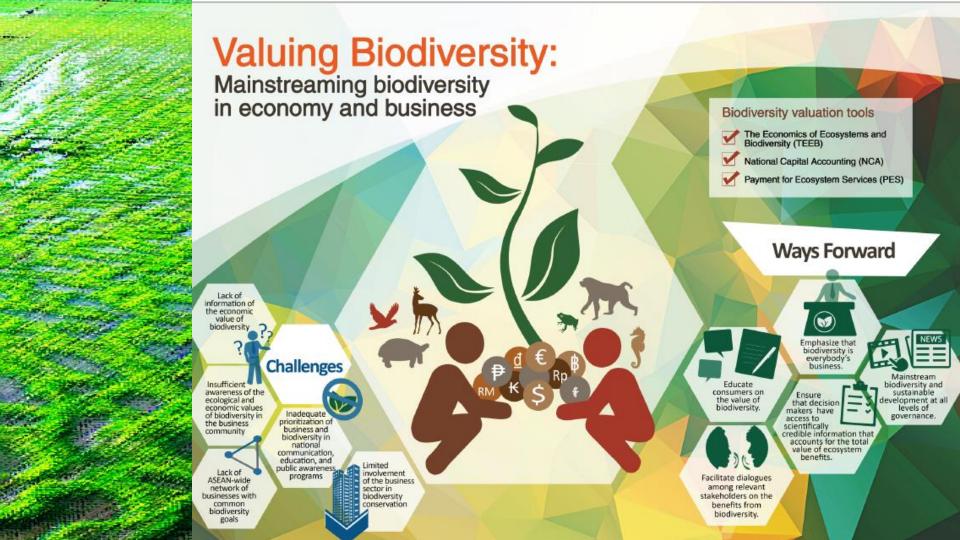
ASEAN Environmentally Sustainable City Award

ASEAN'S RESPONSE



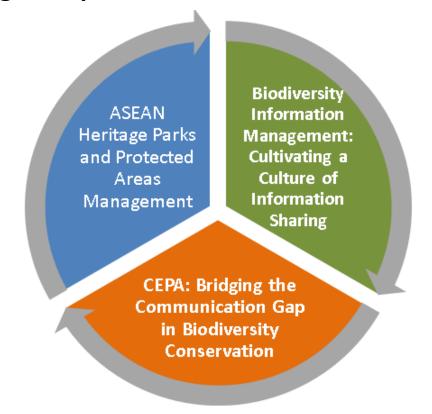
Singapore Index on Cities' Biodiversity







Programs and projects supported by various partners and donors with a total regional portfolio of around USD 50M







Biodiversity Information **Management:**

Cultivating a culture of information sharing

Challenges

Limited

technical

capacity and financial

resources

Language

barriers

Limited sharing of species and PA-related

Species and protected

area data do not

use common



Clearing-House Mechanism (CHM)

to support the conservation and management of biological resources





history museums



Continue

management and data

organization



Maintain globa partnerships

to enhance capacities on CHM



Continue developing biodiversity information management tools



Engage academic institutions as part of network of data partners



activities



A biodiversity information platform that facilitates information sharing



Promote a culture of biodiversity information sharing



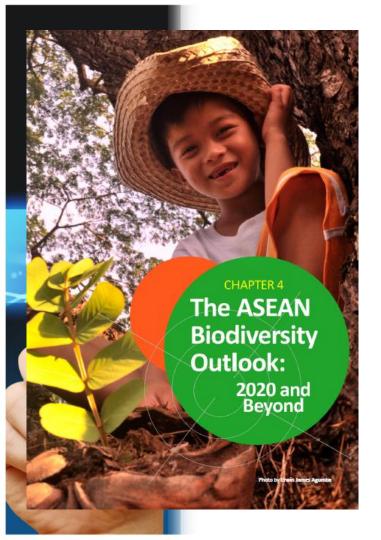
Encourage AMS to support the ASEAN CHM





Contribute data and policies in





- highlights ASEAN's priority actions and strategies beyond 2015.
- Alignments with the ASEAN Socio-Cultural Community Blueprint 2025, the Strategic Plan for Biodiversity 2011–2020 and the Aichi Biodiversity Targets and the ASPEN
- summary of key actions and recommendations to accelerate efforts in the ASEAN region to achieve biodiversity targets by 2020 and beyond.

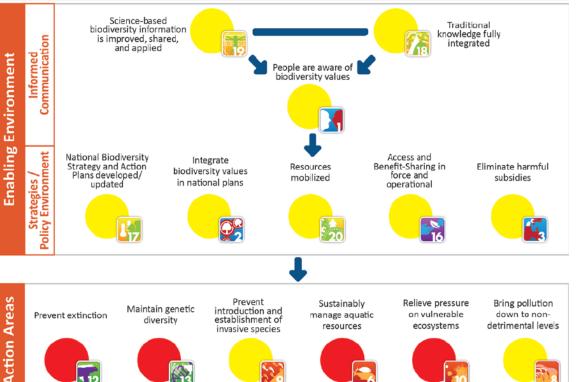
A common understanding of biodiversity and the consequences of its loss

AMS with large geographic jurisdictions are key to achieving areabased Aichi Biodiversity Targets.

There is a need to ensure effective management of protected areas as well as establish functional protected area networks.

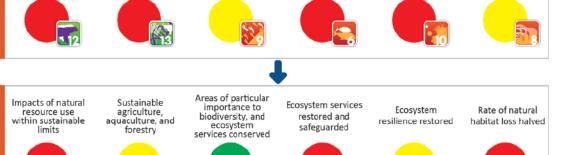
The regional conservation community has to expand beyond the usual conservation support groups

Promote a shared responsibility of the region's biodiversity



The ABO 2 recommends a revised sequence by which the Aichi **Biodiversity Targets are** "ASEANized", implementing them through synergies applicable to the region such that:

- 1) an enabling environment is established with information and policies in place (T 19 & 18; T 17,2,20,16,3);
- 2) conservation actions are implemented (T 12, 13, 9, 6, 10, 8; and
- 3) having items 1 and 2 in place will facilitate the delivery of result areas, such as T 4, 7, 11, 14, 15, 5



invasive species

Result Areas

THANK YOU



chm.aseanbiodiversity.org