



SEEA in Biodiversity Strategy and Action Plan in Indonesia

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Indonesia One of the 17 "megadiverse" countries







Species Diversity



- Indonesia has 554
 Terrestrial Protected
 Areas covering
 27,13 million ha and
 196 Marine
 Protected Areas
 Covering 23,14
 million ha
- One of the world's centers for agrobiodiversity of plant cultivars and domesticated livestock with estimated 25,000 flowering plants, 55% endemic
- It is estimated that around 30,000– 40,000 species of seed plants
 (15.5% of the total number of plants in the world) are in Indonesia
- The Highest in the world of endemicity Birds, Mamals, Reptile Endemicity
- 8.157 vertebrates Species

 (Mamals, Birds, Herpetofauna, fish)
- 1.900 Butterfly species (10% of the total in the world)





It is known that around **74 types**of ecosystems can be found in
Indonesia and create very
complex formations that
including

- marine ecosystems
 (deep/shallow sea, coral reefs and seagrass beds),
- limnic,
- semi-terrestrial (mangroves and riparian)
- terrestrial ecosystem
- artificial ecosystems (paddy fields, plantation, ponds, etc.)

Genetic resources from animal, plant, and microorganism that can be used for medicines and cosmetic trough traditional knowledge and biotechnology

An example: Indonesia's Forest Cover within the last 20 years





In the last 20 years, Indonesia has lost 10,8 Million ha forest cover due to land use conversion and forest fires Forest cover in Indonesia is estimated to decrease by **17,2 Million ha** between 2000 and 2045, if no specific actions taken to protect the forest coverage area.

The value of biodiversity loss estimated **USD 295 million (2015)**

https://www.worldbank.org/in/news/feature/2015/12/01/indonesias-fire-and-haze-crisis



Forest Coverage Area Loss by Island 2000-2020

> Sumatera Island -3.916.000 ha

Java Island -270.475 ha

Hali Island +38.050 ha

Kalimantan Island -5.044.725 ha

Sulawesi Island -542.050 ha

Maluku Island -143.850 ha

Papua Island -685.450 ha

Sumber: Kajian Ilmiah Tim KLHS, 2018

The Implementation of SEEA in Indonesia





SISNERLING

- Sistem Terintegrasi Neraca
 Lingkungan dan Ekonomi
 (SISNERLING) is issued by BPS annualy
- The purpose of SISINERLING is to give the picture of develompent impact and economic activity for the natural resources and natural carring capacity

BPS has compiled SISNERLING since 1990

Indonesia adopted guideline manual from UNSD in 2001

For the first time Indonesia implemented SEEA CF in SISNERLING in 2016 and continued until 2020

The scope of natural capital accounting in SISNERLING:

- o 9 Types of Energy and Mineral Resources
- 2 Types of wood/timber resources
- Land accounting

SPECIFIC STUDY FOR ENVIRONMENTAL AND ECONOMUC ACCOUNTING







Exclusive Survey for
Environment Goods and
Services Sector and
Environment Protection
Expenditure Account
(EGGS/EPEA)



2018



In-depth Study SEEA for Agriculture, Forestry, and Fishery



2019-2020



Exclusive survey for sustainability tourism

0

2021-2022



In-depth Study
Ocean Accounts

Wealth Accounting and the Valuation of Ecosystem Services in Indonesia





The Indonesia WAVES Program

Indonesia joined WAVES in 2013 and formalized the partnership in 2015

Steering Committee









Strengthen SISNERLING

- New accounts were developed;
 - land cover accounts at national level
 - ecosystem extend accounts for Sumatera and Kalimantan
 - Initial water pilot accounts in Citarum Watershed

"to promote sustainable development by ensuring that natural resources are mainstreamed in development planning and national economic accounts"

2013:

Indonesia ioined WAVES Program

2014: Initial study and stakeholder consultation to identify natural capital and ecosystem account related to government policy and feasibility assessment of WAVES land account

2015: capacity building for land accounting; WAVES's concept was agreed by WB



Integrated low carbon development to RPJMN

- LCDI has 5 (five) main strategies of Indonesia's Low Carbon Development to achieve high economic growth while reducing emission up to 27,3% in 2024
- SEEA compliant data these aspects were particularly useful to introduce and analyze carrying capacity

2019:

publicity of new account. **LCDI** report, closing ceremony

2018: capacity building about macro economic indicator, review for land cover. ecosystem area. peat and ecosystem account, water account

2017: participation on WAVES training, conference: Coordination Team was formed; SC team was legalized; development of land account

2016: water account training; new decree about SISNERLING coordinating team; South to South Knowledge Exchange with MoF



The adoption of legislation on natural capital

- Issued a new Decree Number KEP.53/DEP.3/10/2017 for the establishment of the Coordinating Group for SISNERLING implementation
- Drafting the regulation on Fiscal Potential of Natural Resources

Environmental Issues has now been incorporated as Government's Priorities in the RPJMN 2020-2024



Indonesia's Mid Term Planning Document (RPJMN)



Within Indonesia's planning document (RPJMN), through a long process, Indonesia has successfully incorporated three program (1) Increasing Environmental Quality (2) Enhancing Disaster and Climate Resilience and (3) Low Carbon Development included as one of the Development Priorities.



Program Priority 1
Improving Environmental
Quality



Program Priority 2
Enhancing Disaster and
Climate Resilience



Program Priority 3
Low Carbon Development

Improving the quality of the environment, through improving the quality of water, air, sea water, land cover and handling pollutants

Enhancing disaster and climate resilience, through strengthening the convergence between disaster risk reduction and climate change adaptation

Implementing Low Carbon Development, through emission reduction policies and emission intensity in priority areas (energy, transportation, land, waste. Industry, and marine)

Increasing Environmental Quality
Index

69.7

In 2024

Reduction of GDP potential loss due to disasters and climate issues

1,25%

compared to total GDP in 2024

Emission Reduction
Target

27,3%

compared to baseline in 2024

Emission Intensity Reduction Target

31,6%

compared to baseline in 2024

Next: Biodiversity Index

2020: 70,27

no data available

2019: 23.46%

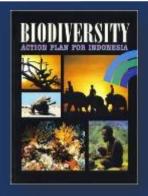
2019: 20.77%

Measures

Goals

Indonesia Biodiversity Strategy And Action Plan (IBSAP)

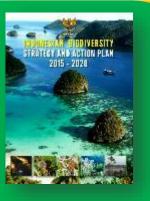




1993



2003-2020



2015-2020



2020-????

Biodiversity Action Plan for Indonesia (BAPI)

Goal: To conserve as much as possible of the biodiversity on which the livelihood and prosperity of Indonesia depends

INDONESIA BIODIVERSITY STRATEGY and **ACTION PLAN 2003-**2020.

Into 3 Books:

- **National Document**
- **Ecoregion Document**
- **Network Document** (database)

- UPDATE IBSAP 2015-2020
- The Aichi Targets are translated into 22 **National Targets (NP) of IBSAP 2015-2020.**
- Several NP have become priorities in the 2015-2019 RPJMN and in the Ministry Strategic Plan

- Next The IBSAP Post 2020
- With main Indicators/Common Goals
- Synergy with The Post 2020 GBF. Climate Change Issue, Indonesia 2045 Vision. RPJMN, Green **Economy, & SDGs**

Background of Strategy for Post 2020 Biodiversity Management





The Indonesian government relies the national development for the natural resources and biodiversity management. Indonesia's economic development is oriented towards improving human welfare which cannot separate from the carrying capacity of the environment and natural resources to have a sustainable national development



The important of composing the Post 2020 Biodiversity Management in Indonesia and integrated it to the regulation with

- The end of IBSAP 2015-2020
- Strategy for management biodiversity as one of Mega-Biodiversity Country
- The ongoing Post 2020 Global Biodiversity Framework (GBF Post-2020)
- The end of Indonesia's Mid Term Planning Document (2020-2024) and Indonesia's Long Term Planning Document (2005-2025)



With consideration:

- The synergy with The Post 2020 GBF, Climate Change Issue, The Priority of Development in RPJMN and Indonesia vision for 2045, Green Economy, dan SDGs
- Formulating Biodiversity Policy and Strategy Directions based on clear operational definitions, scope, main indicators to priority locations
- The mapping of the issues and underlying causes with involving all related stakeholders
- The direction of document:Transformative Change, Not Business as Usual, Evidence/Scientific Based Policy, and Reliable

Strategy for Post 2020 Biodiversity Management



Scope/Focus



The clear definition and scope

Baseline



The update of data and information about Biodiversity Status



The evaluation of previous IBSAP and existing document

Policy Intervention, Strategi & Program



Action Plan and Priority Location for Indonesia Biodiversity Management



Integrated
Monitoring and
Evaluation
System



Strengthen the Institutional and Regulation



Resource Mobilization Strategy



Indicator/ Common Goal

Indonesia Vision:

Biodiversity has been valued, conserved, restored, and used sustainably and ecosystem services have been maintained by 2050

Global Vision:

Living in Harmony with Nature by 2050

Suplemen Evidence/ Science-Based policy

Gap/Problem

Statement

Biodiversty Status in 7
Ecoregion
(as though update on ecology

book by Tony Whitten)

Main Indicator for Biodiversity Management Strategy

Interlinkages
Between
BiodiversityClimate Change

Monev Mechanism and CHM Resources Mobilization Strategy Communication
Outreach Strategy

SEEA Role in Biodiversity Management in Indonesia





The SEEA can be used to inform biodiversity policies in an integrated manner and develop indicators for monitoring progress toward the National Biodiversity Targets



The SEEA's role on biodiversity to supporting the economy aspect helps make the economic case for conservation. Its integrated systems approach can identify key trade-offs and support the development of "win-win" conservation approaches (in terms of phisical and monetery)



Methodological Basis for Target Achievement in IBSAP Post 2020, the next RPJPN & RPJMN for Biodiversity Aspect



Assist the law enforcement for the violations of the use of natural resources and the environment cases with the correct value of natural resources and the environment



The SEEA can be an helpful tool to formulating policies designed at addressing the drivers of biodiversity loss and degradation

