



# SEEA IMPLEMENTATION IN INDONESIA

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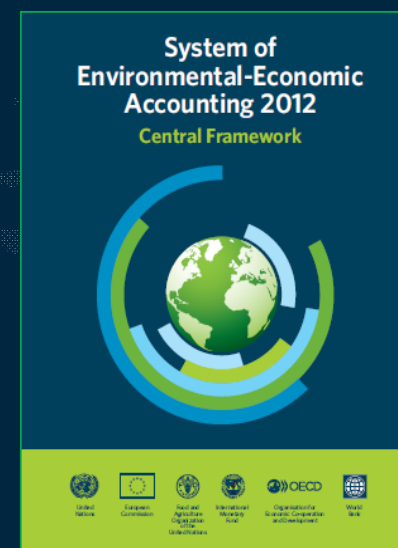
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# LINKING SEEA TO NATIONAL DEVELOPMENT POLICY

## GENERAL POLICY DIRECTION OF NATIONAL DEVELOPMENT 2015-2019

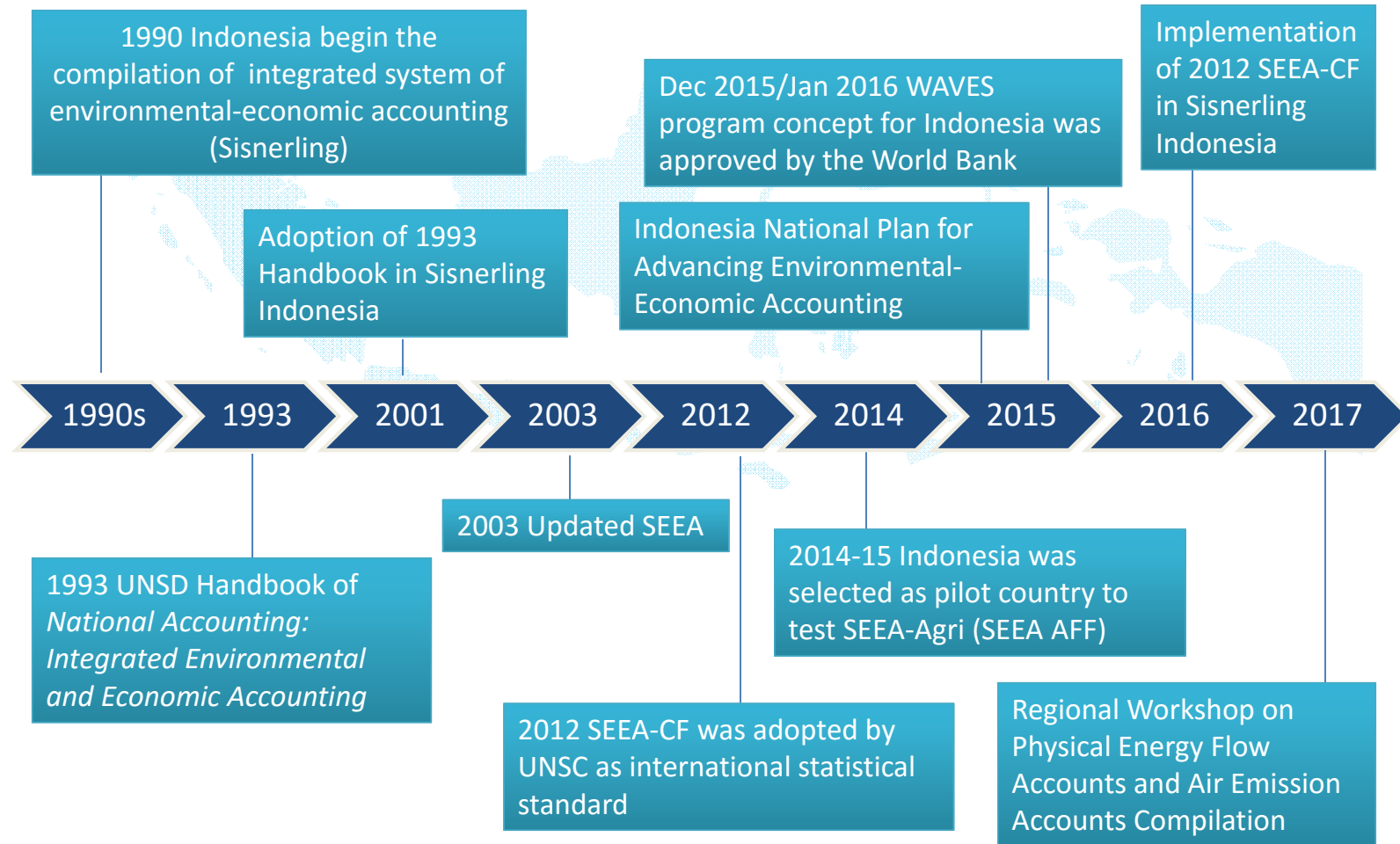
- 1 Inclusive and Sustainable Economic Growth
- 2 Sustainable Natural Resources Management and Value Added
- 3 Infrastructure Construction for Growth and Equity
- 4 Environmental Quality, Natural Disaster Mitigation, and Climate Change
- 5 Solid Development Foundation
- 6 Human Resources Quality and Just Public Welfare
- 7 Regional Development



**SEEA**

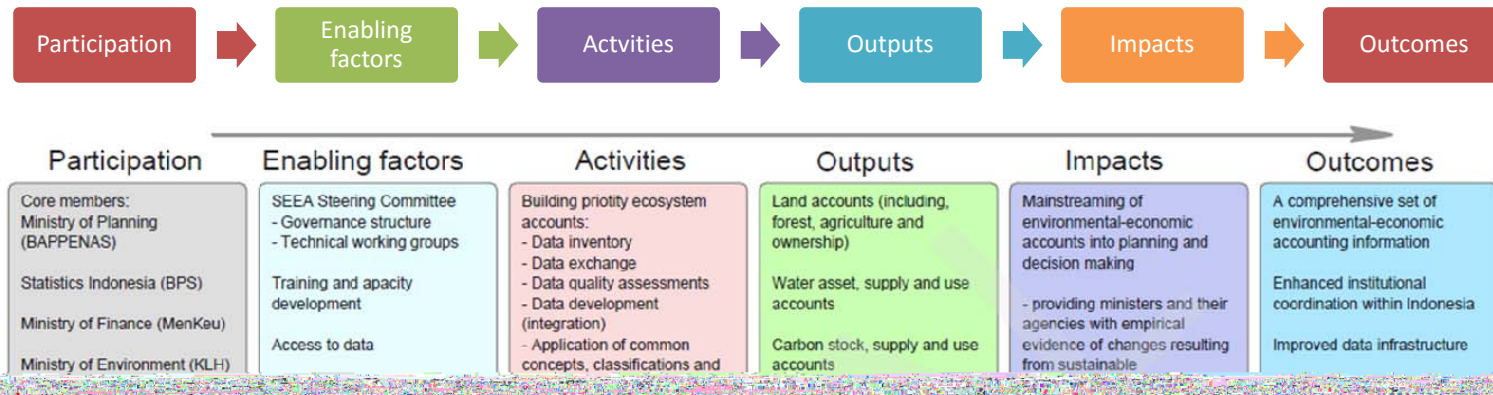


## The Story of SEEA in Indonesia





# Indonesia National Plan to Implement SEEA





## COMMUNICATION STRATEGY TO LINE MINISTRIES/INSTITUTIONS



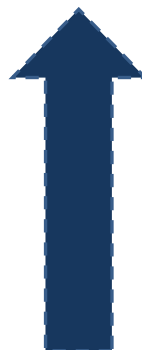
BPS-Statistics Indonesia has been producing asset accounts for selected natural resources since 1997.



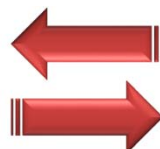
Line ministries produce their own data



NCA/  
SISNERLING



Forest inventory,  
agriculture  
statistics, energy  
statistics



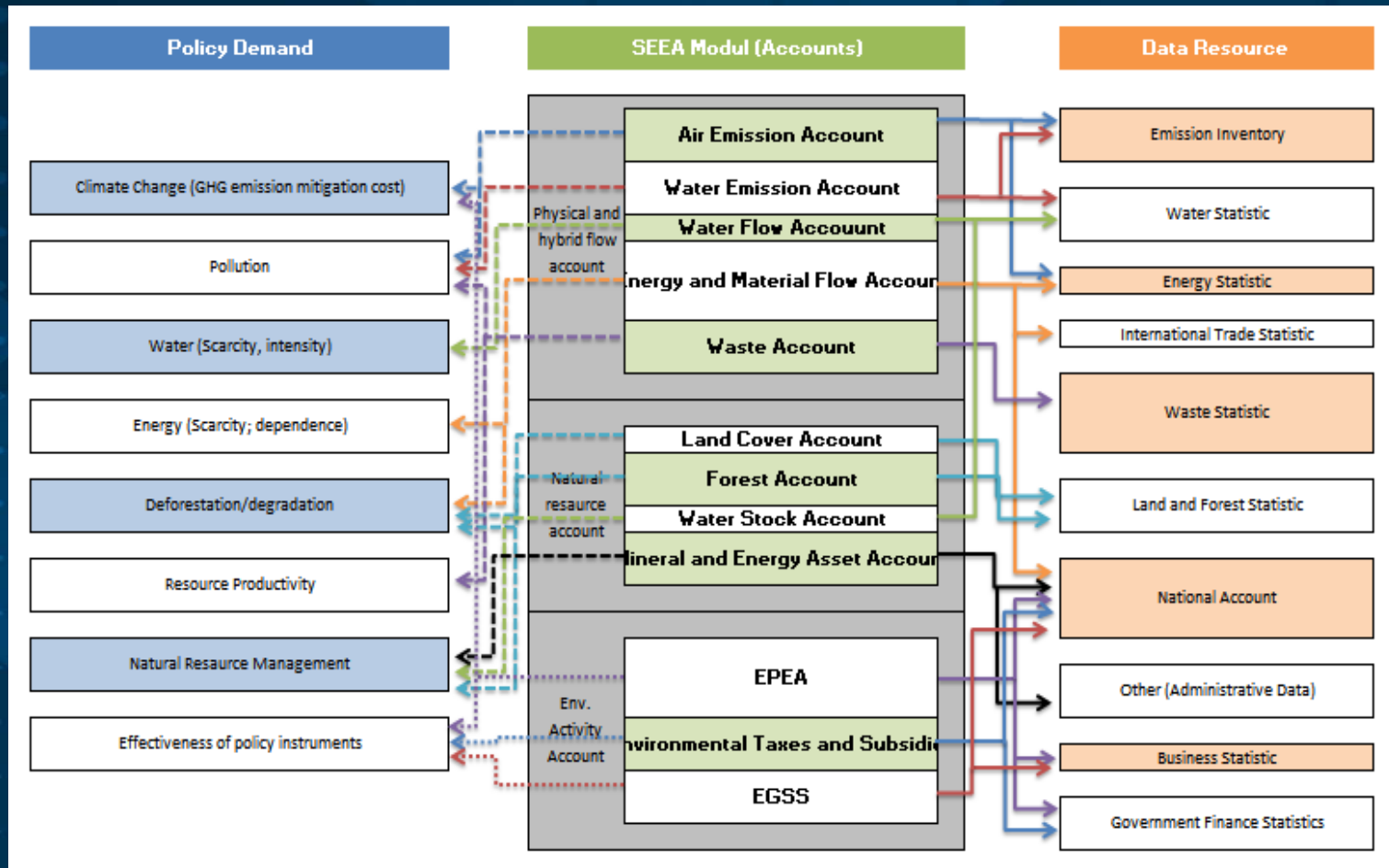
Missing  
Link...??

Long-list of  
development  
priorities –  
Competing  
sectoral agendas



*How to create linkage between NCA and  
Development Policy Exercise (among  
competing sectoral agendas) in Indonesia?*

# Linking policy demand, accounts, and data sources





# Implementation methodologies

## Institutional framework

- High level commitment, and engagement of partners; common coordination; data collection/sharing implications
- Advisory committees
- Legislation, mandates to coordinate, produce, supply inputs etc.
- Inter-institutional commitments for production of integrated statistics
- Inter-departmental commitments – service-level agreements
- Programme governance structure development

## Roles and responsibilities for environmental-economic accounting

- Working groups, Advocacy
- Workshops – policy, awareness-building, etc.
- Demonstrations, Feasibility
- Proof of concept – experimentation, structural change,
- Training sessions
- Customised communications plans

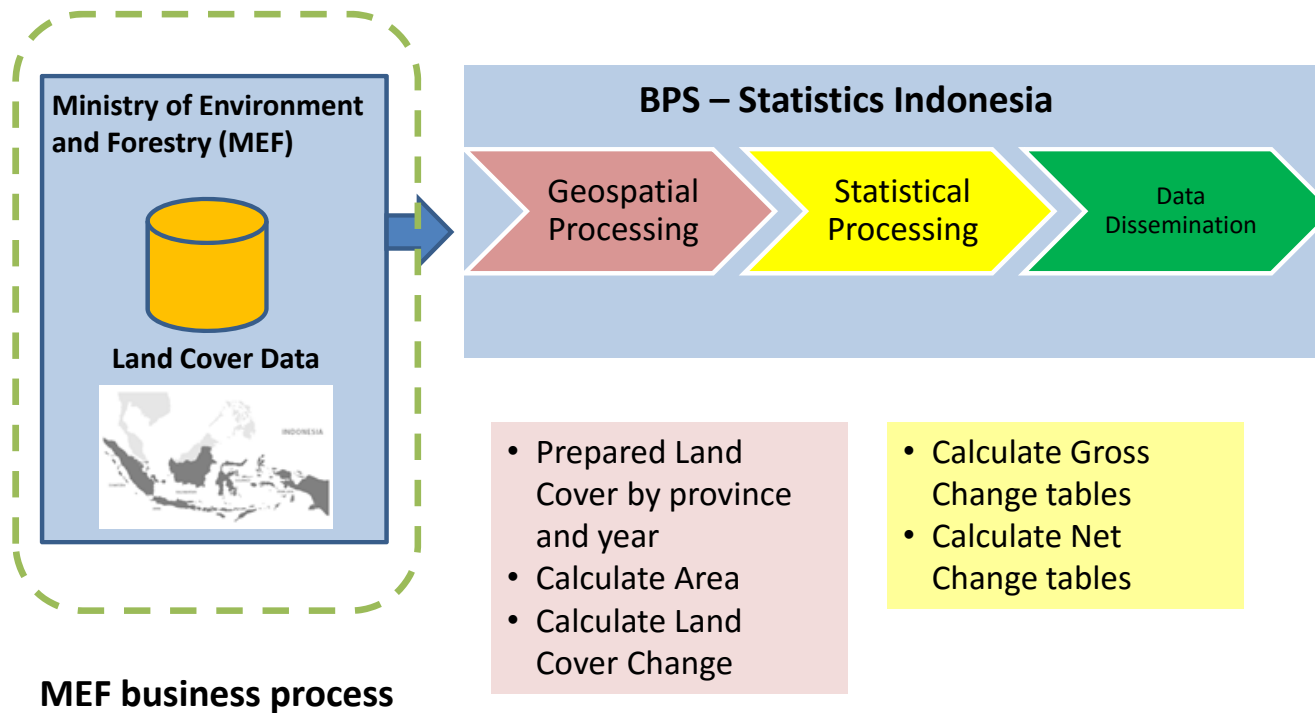
## Environmental-Economic accounts production process

- Data collection (or generation – through sampling, inventories/surveys, detailed process-modelling, remote-sensing applications, course-process modelling);
- data harmonization (processing, quality control, imputation);
- accounting inputs;
- accounting outputs estimation
- accounts validation

## Research, development and experimentation

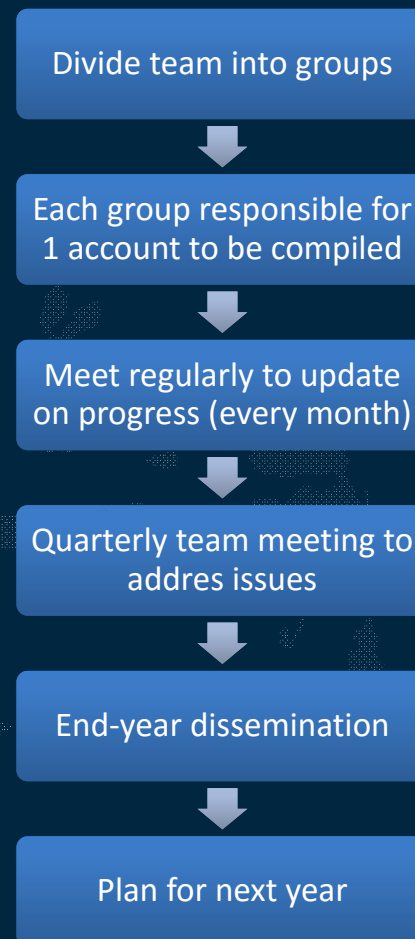
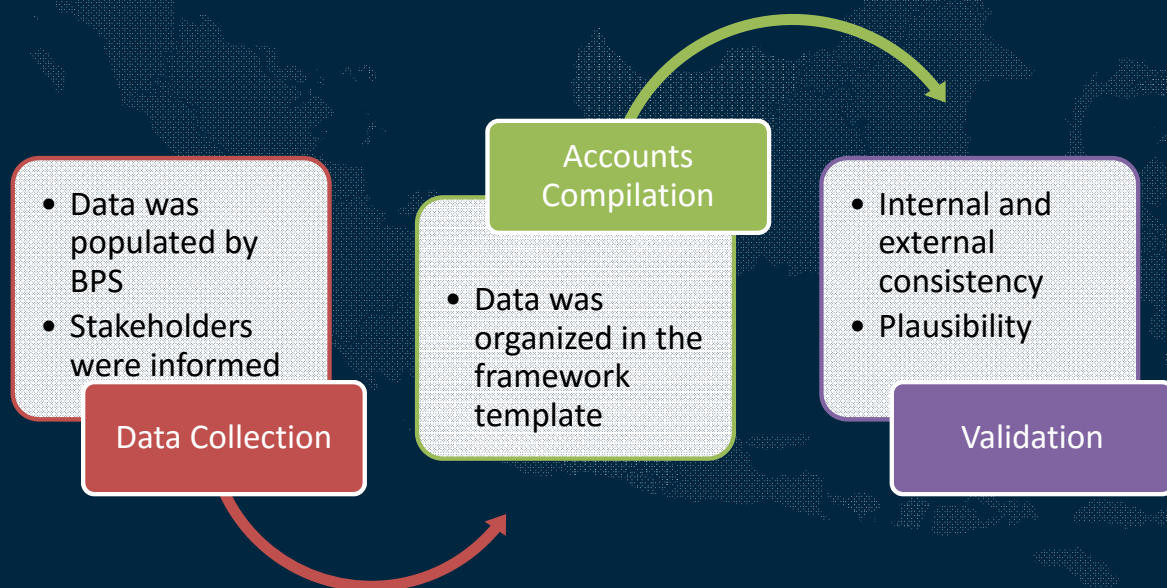
- Accounting classifications , with standardised item definitions and measurement methods
- Country specific classification of ecosystem assets
- Units for ecosystem accounting
- Environmental indicators and aggregates
- Up scaling and downscaling
- Valuation
- Validation data and specific quality criteria need to be developed to formally track progress

# Approach in compiling Indonesia's land account





# Compilation Strategy



# Dealing with Issues capacity, staffing/financing/resources



Send employee to conference to learn on new development or other countries experience



Offer courses for learning, online or in-site



Offer coaching from senior to junior staff



Sharing contents such as literatures to spread the knowledge



Due to limited resources, establish clear goals

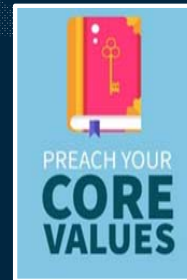


Group collaboration to make finance/resources efficiently used

## working with line ministries and other agencies



Create connection with line ministries/other agencies based on what's their need



Offer SEEA as the international standard of environmental-economic statistics in accounting framework



Testing new initiative to engage line ministries/other agencies to be more involves

## communication and dissemination



Organize or participate in events to showcase works being done in implementing SEEA in Indonesia



Effectively post your progress through popular social media



Be specific and relevant to your audience, timely dissemination



Be compelling in delivering SEEA works in Indonesia to show it can make an impact

## Things that worked well so far

Build partnership with key stakeholders to gain **access to sectoral data and map**

Intensify the **socialization** of the results obtained with policy makers



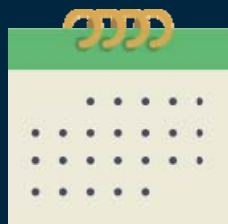
Need to make **operational manual** for each account compiled

Use various **international initiatives** to help implementing SEEA

# SCOPE OF SEEA IMPLEMENTATION IN 2017







## SEEA IMPLEMENTATION AGENDA 2018



Material Flow  
Accounts

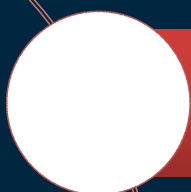


Water Accounts

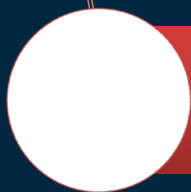


SEEA-AFF

## Going forward: a reflection



Need a dedicated unit for SEEA under the national account



Need close collaboration with Line ministries and Subject matter areas



Need international supports for capacity building, communicating, disseminating strategy



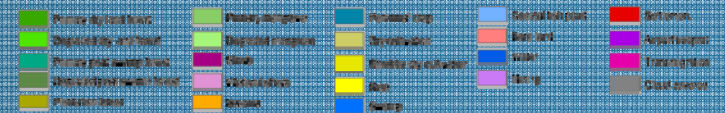
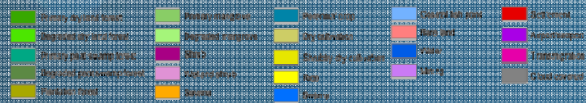
# SCOPE OF SEEA IMPLEMENTATION IN 2017







# 2014







## SDGs Indicators derived from Land Accounts

### 15.1.1. Percentage of Forest Area in Indonesia



### 15.2.2. Forest Loss in Indonesia, 2009-2014



- 1.913.877 ha



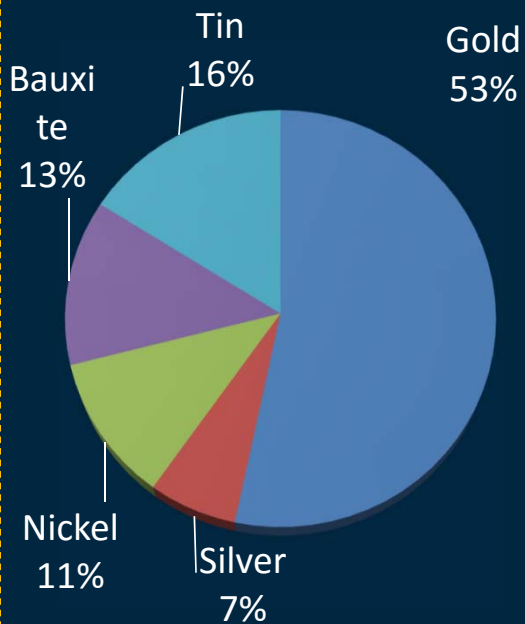
- 1,00 %



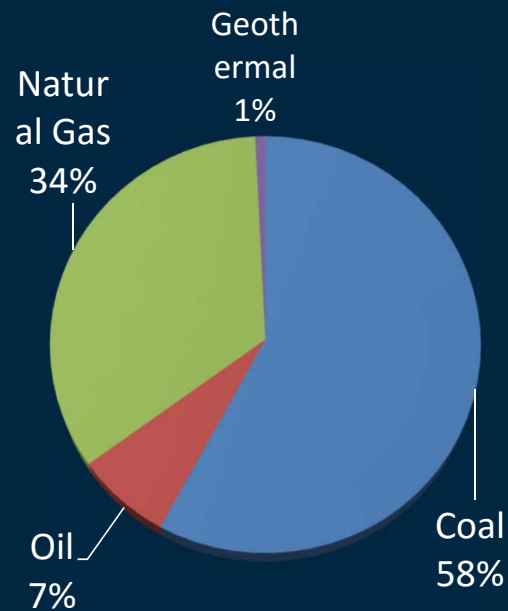


# MINERAL AND ENERGY ASSET ACCOUNTS 2016

## Mineral Resources



## Energy Resources

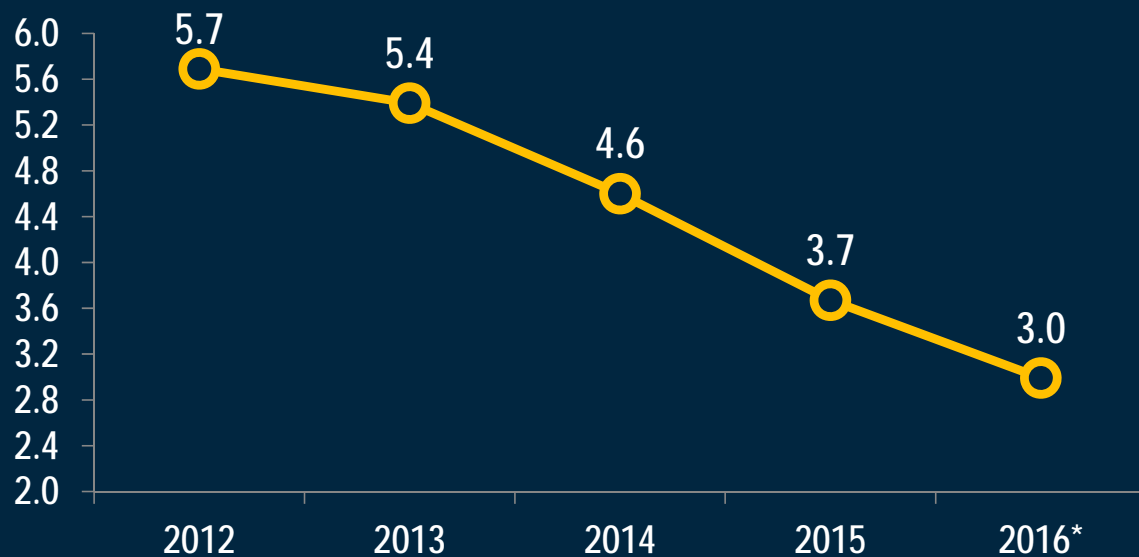






# TIMBER ASSET ACCOUNTS

Timber Physical Asset Accounts, 2012-2016  
(in billion m<sup>3</sup>)



# ENERGY FLOW ACCOUNTS

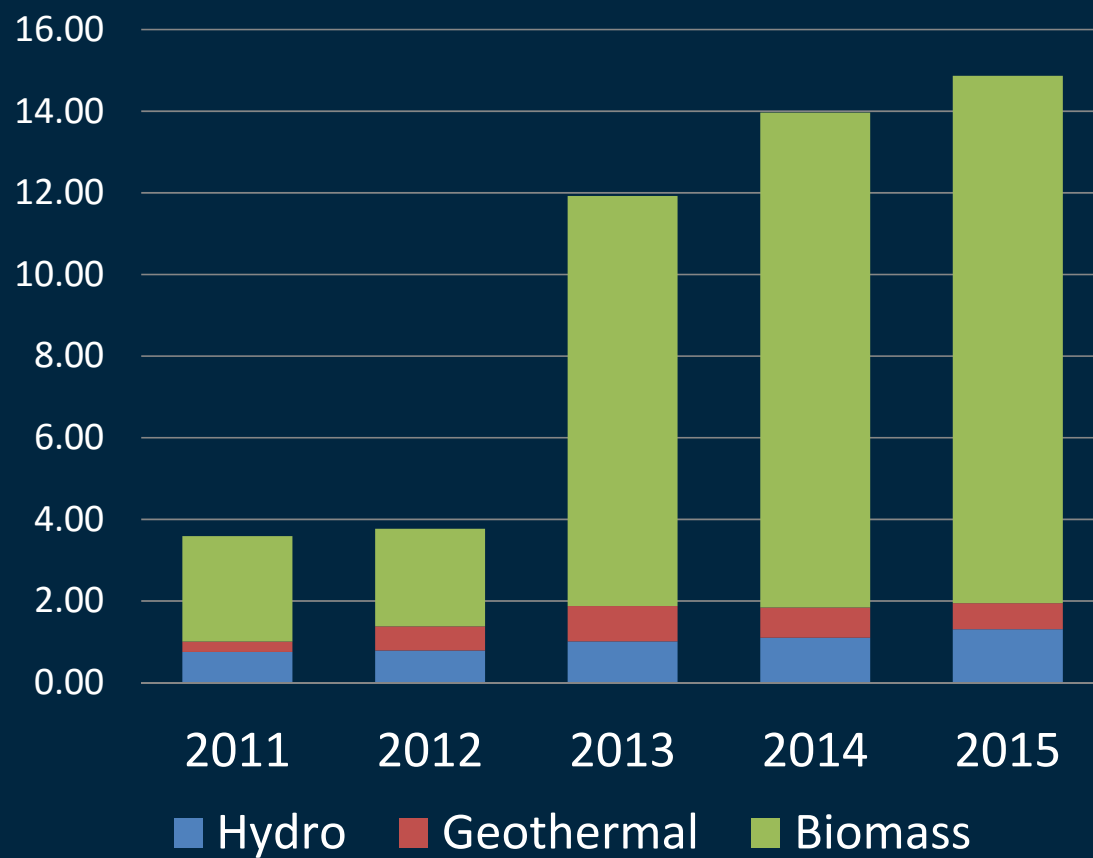


## Energy Intensity by Industries and Households, 2011-2015 (GJ per million IDR)





## Renewable Energy Share in the Total Final Energy Consumption (percent)

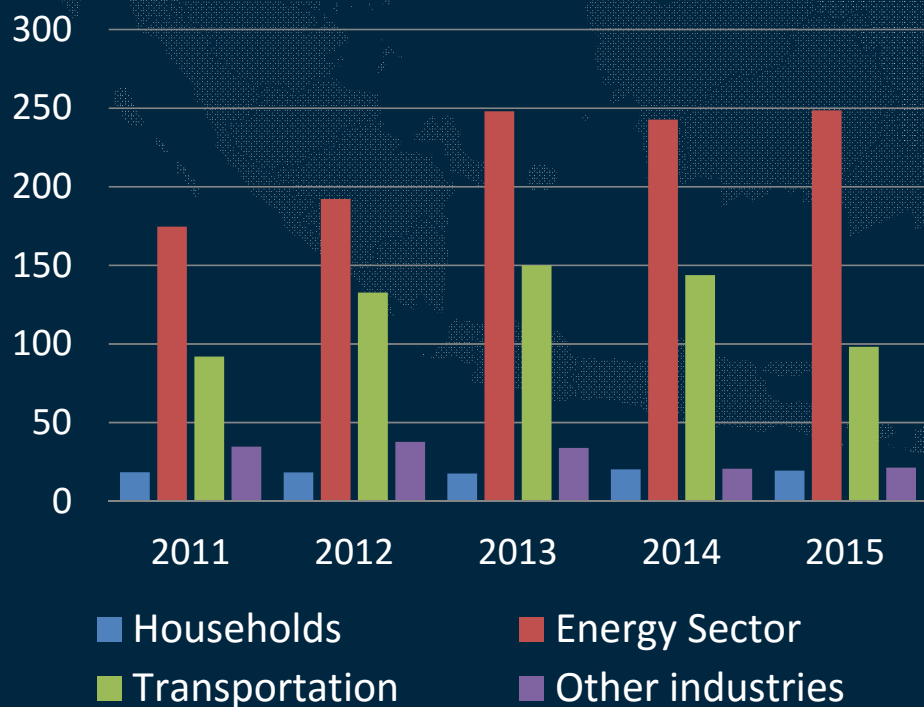




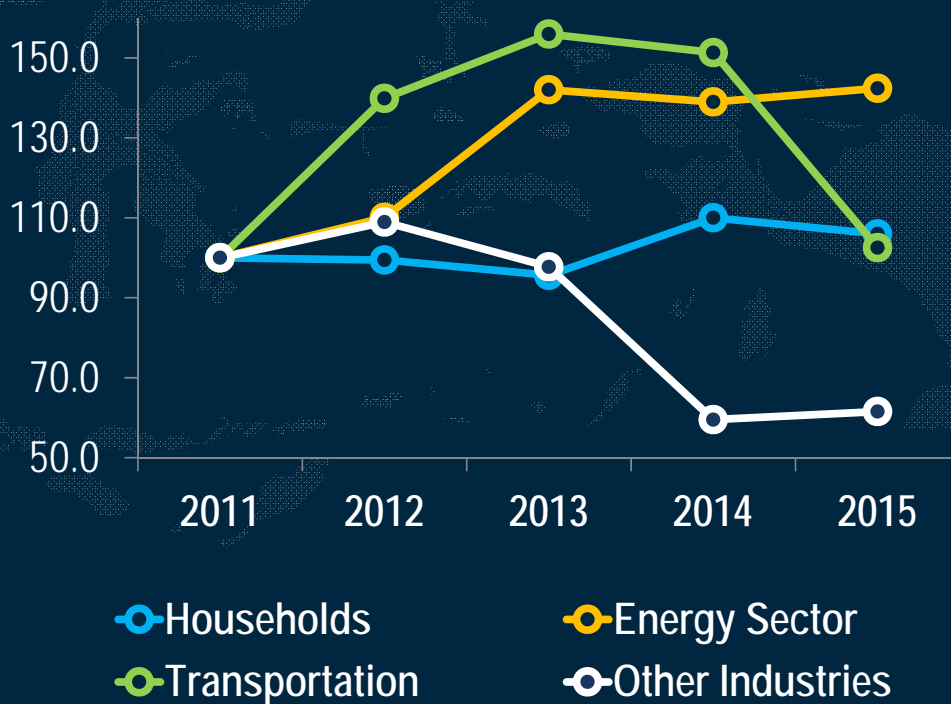
# AIR EMISSION ACCOUNTS



**CO2 Emission Intensity  
(in Mg per billion IDR GDP)**



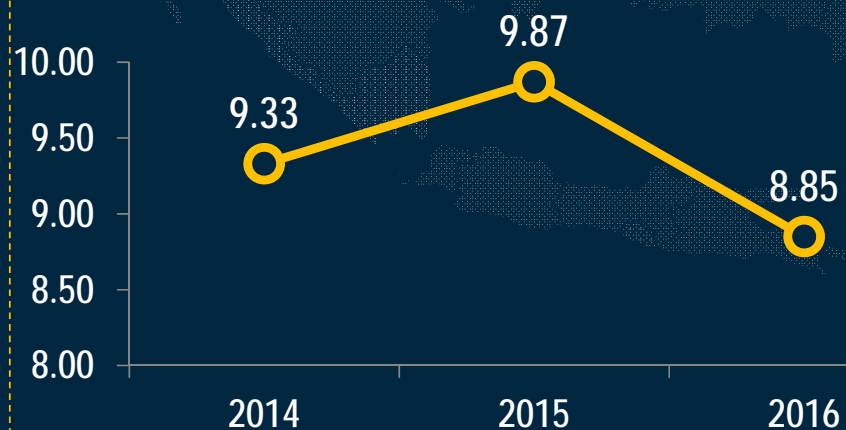
**CO2 Emission Intensity Index  
(2011 = 100)**





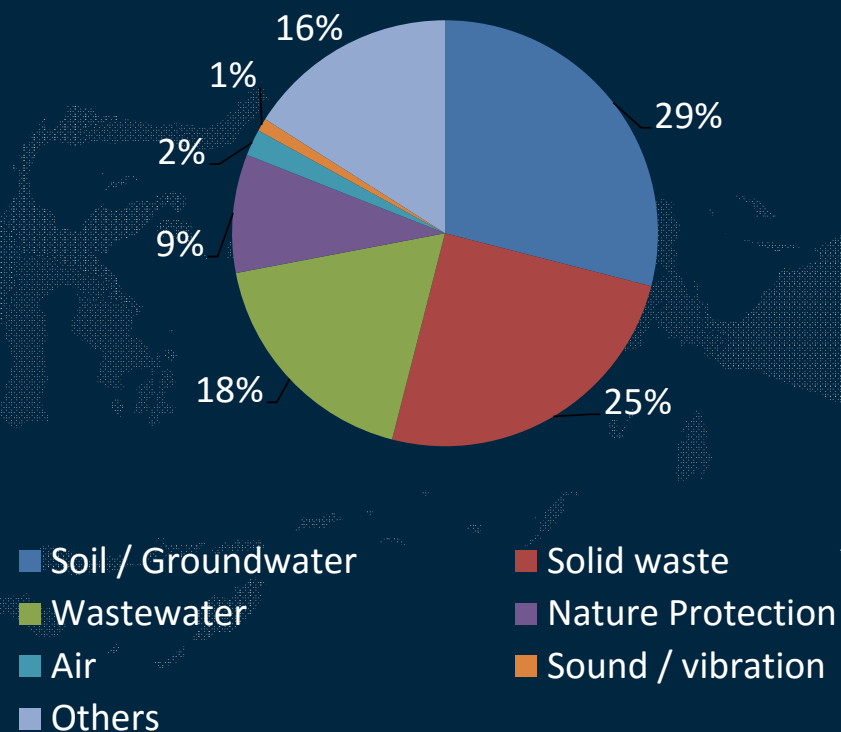
## GREEN ECONOMY IN INDONESIA

State Government Expenditure on Environmental Function, 2014-2016  
(in trillion IDR)



Source: LKPP 2015-2016 (Audited)

Internal Operational Expenditure of Industries by Environmental Protection Category in 2016

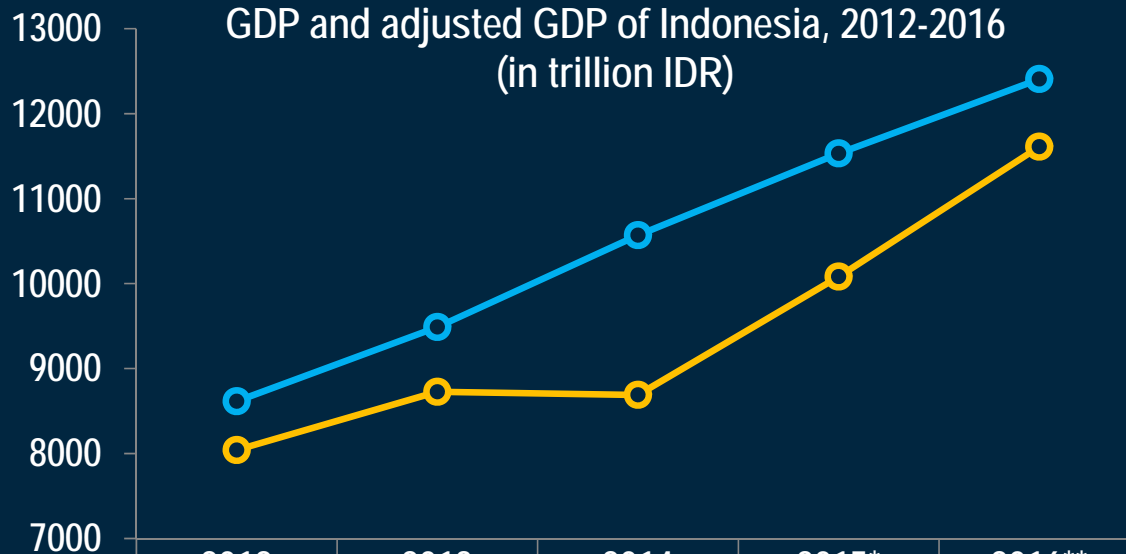


Source: EPEA/EGSS Indepth Study 2017 in 17 provinces (pilot survey)



## Enviromentally Adjusted Gross Domestic Product

GDP and adjusted GDP of Indonesia, 2012-2016  
(in trillion IDR)



GDP	2012	2013	2014	2015*	2016**
Adjusted GDP (Green GDP)	8616	9488	10570	11532	12407
	8041	8726	8690	10081	11610



# THANK YOU TERIMAKASIH

