

Indonesia's National Climate Change Action Plan and MRV

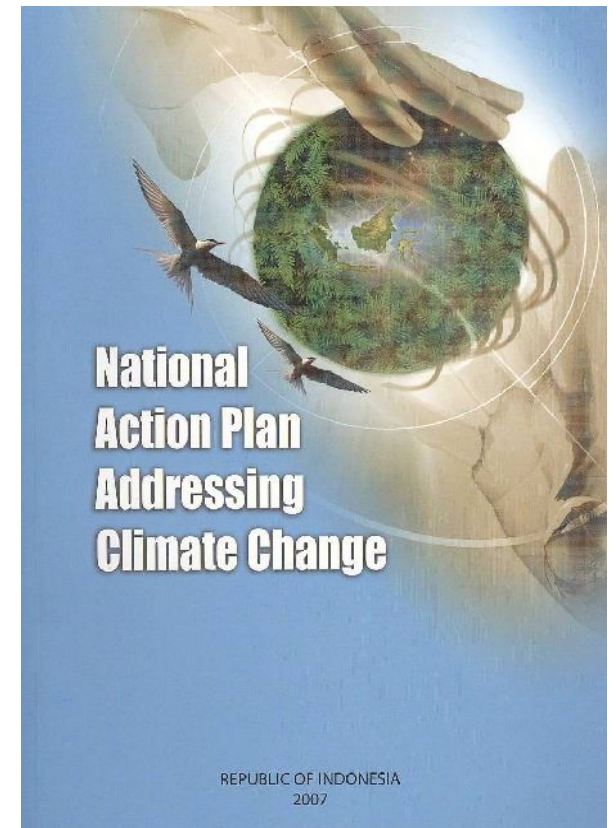
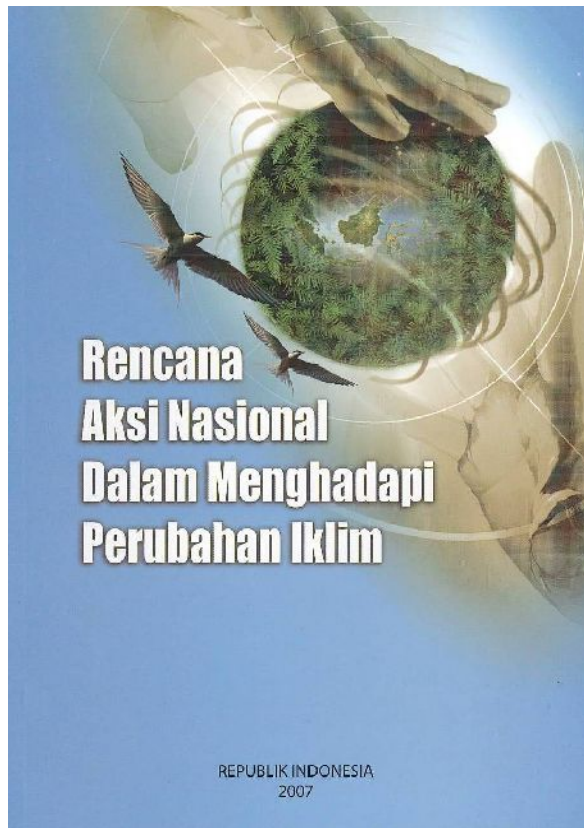
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on

18th Asia Pacific Seminar: **“Architecture of an Effective Future Regime”**

Hanoi, 2-3 March 2009

National Action Plan Addressing Climate Change (RAN-PI)



November 2007

RAN-PI

Objective

- to be used as a guidance to various institutions in carrying out a coordinated and integrated effort to tackle climate change.

Characteristic

- Dynamism; therefore be continuously evaluated and improved periodically

National Development Strategy to Anticipate Climate Change

- *Triple track strategy, pro-poor, pro-job, and pro-growth , with pro-environment principle.*
- Mitigation Agenda : Development program should be firmly refer to target to reduce green house gas emission and energy intensity from economic growth;
- Adaptation Agenda : Development pattern that resilient to the present impact of climate change and weather anomaly and anticipate the future impact.

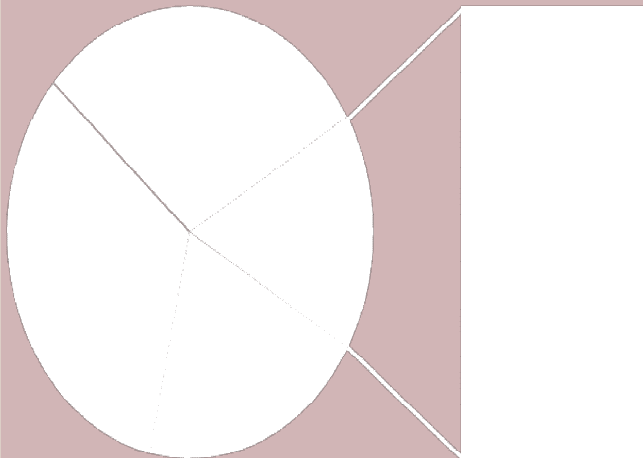
Principle of National Development to Anticipate Climate Change

- Harmonization of all legal and policy instruments;
- Integration and harmonization of space and the exploitation of public resources;
- Harmonization of consumption pattern and sustainable production;
- Integration of every mitigation and adaptation aspect along with its social-culture aspects.

Climate Change Mitigation Action Plan

ENERGY MIX:

Emission Reduction Target Scenarios (compare to BAU):



Energy Mix 2025 → 17%

Geothermal → 20%

Carbon Capture & Storage → 40%

LULUCF: di 2007

Forest area: 120.35 Mha

Degraded forest: 53.9 Mha

Forest Rehabilitation (increase carbon absorption):

Year 2025 → 36.31 Mha

Year 2050 → 53.9 Mha

Hot Spot (forest fire) reduction target (compare to 2006):

Year 2009 → 50%

Year 2012 → 75%

Year 2025 → 95%

Laut dan Pesisir:

Absorb 245.6 M ton CO₂/year

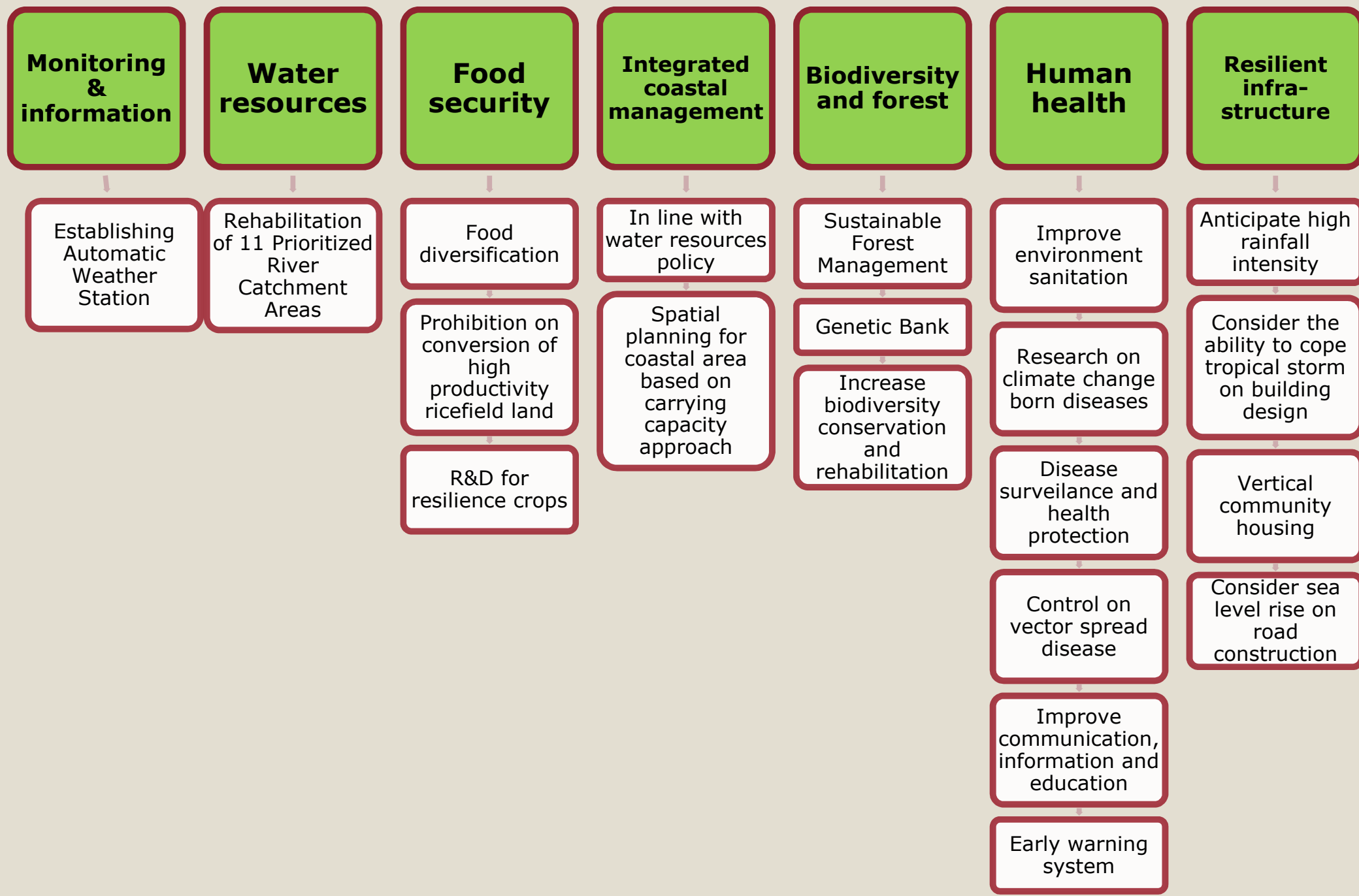
Policy on Marine & Coastal:

Mangrove and coastal vegetation planting,

Coral reef rehabilitation,

Expand Marine Protection Area (MPA)

Climate Change Adaptation Action Plan



on-going and planned activities on mitigation ①

Develop the Second National Communication (SNC)

- 1.Coordinating the stakeholder's annual meeting
- 2.Developing programme of work
- 3.Developing the GHG emission monitoring mechanism.
- 4.Coordinating the GHG emission inventory from all sectors.

Monitor and develop the implementation of Biogas pilot project in household and rural area

- 1.Developing local institutional for local people
- 2.Training
- 3.Material for capacity building

GHG database management

- 1.Assessment for GHG emission baseline
 - a. Assessment on industrial waste
 - b. Assessment on domestic waste
 - c. Assessment on Agriculture
 - d. Assessment on Forestry
2. Preparing the national GHG database management system.

on-going and planned activities on mitigation ②

National Management System for the Development of GHG Inventory in Industry (cement, steel, pulp and paper, fertilizer, Ceramic, textile)

1. Identification of emission sources

- a) Capacity Building
- b) Participation of key stakeholders in training workshop on Development of national GHG inventory
- c) Guidance
- d) Dissemination of Information

2. Technical Assistance (experts)

3. Development of a National GHG Management System (data management, institutional arrangement to ensure the establishment of GHG Inventory system)

Pilot Project for Mitigation Activities

1. Industry → a) fuel switching and alternative fuel,

- b) energy efficiency,
- c) waste management, waste to energy.

2. City → a) Promote sustainable cities

- b) Urban Transportation
- c) Waste Management (composting, waste cooking oil as alternative fuel)
- d) Energy Efficiency (in commercial and public building)
- e) renewable energy promotion
- f) promote the extension of green area (ruang terbuka hijau)

on-going and planned activities on adaptation ①

- Development of National climate change adaptation policies and programs (regulation, institutional, actions)
 - Transfer of knowledge for local stakeholders
 - Develop materials for capacity building
 - Assist local government on adaptation action/strategies
 - Conduct public consultation in relation to integrate climate change issue into local action plan
- Develop the Ministerial Decree concerning Green building
 - Dissemination of regulation
 - Development of Green Building policy
 - Develop technical criteria for certification
- Utilization livestock manure to biogas as a new source of energy
 - Enhance river water quality
 - Increase community's income
- Vulnerability and adaptation assessment
 - Lombok–Nusa Tenggara Barat (tentative: will be completed on March 2009)
 - Tarakan District–East Borneo and South Sumatera (2 sites for replicating V&A assessment in Lombok)

on-going and planned activities on adaptation ②

- “Kampung Iklim” program
 - Develop concept and priority criteria on “Kampung Iklim”
 - Conduct coordination meetings and ground check → site selection
 - Identify and plan on the needs of mitigation and adaptation efforts to the location
 - Public consultation for “Kampung Iklim” program.
- Development of vulnerability to climate change index (Vulnerability Index–VI)
 - Stocktaking the vulnerability and adaptation assessments in Indonesia (previous, on-going, and planned assessments)
 - Technical assistance/support on the on-going and planned V&A assessment → areas representing Indonesia territory (Tarakan–East Kalimantan, South Sumatera, Molluccas and Papua, Java, Sulawesi)
 - Development of VI-concept, taking into consideration different approaches such as multi-criteria approach, development of parameters/measures/criteria
- Establishment of data base and information systems related to adaptation and vulnerability issues in Indonesia

Reforestation/
rehabilitation

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Early warning system

Lights [energy] by solar
cell/biogas/other RE

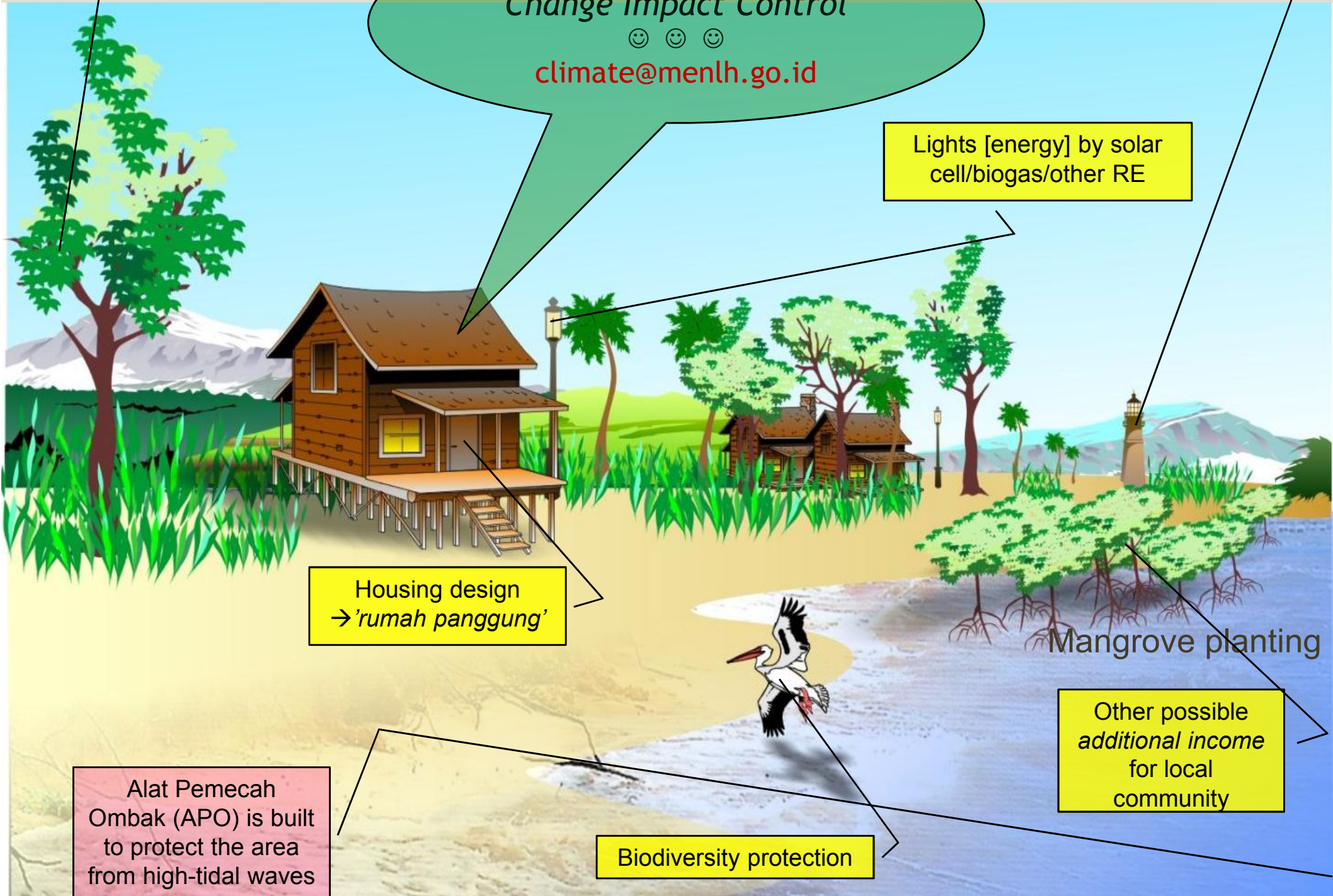
Housing design
→ 'rumah panggung'

Mangrove planting

Other possible
additional income
for local
community

Alat Pemecah
Ombak (APO) is built
to protect the area
from high-tidal waves

Biodiversity protection



Indonesia's perspective

Measurable, Reportable, and Verifiable (MRV)

The Bali Road Map: Bali to Copenhagen

AWG-LCA: BAP → Para 1

(a) Shared vision on long term cooperation action

(b) ↑national/international action on mitigation → MRV

(c) ↑ action on adaptation,

(d) ↑ action on technology development and transfer

(e) ↑ action on the provision of financial resources & investment

AWG-KP

Means to reach emission reduction target

Env., economic, social consequences (spill over effects)

Mitigation potential and identification of ranges of emission reduction of Annex-I

Further commitment by Annex-I

SBs

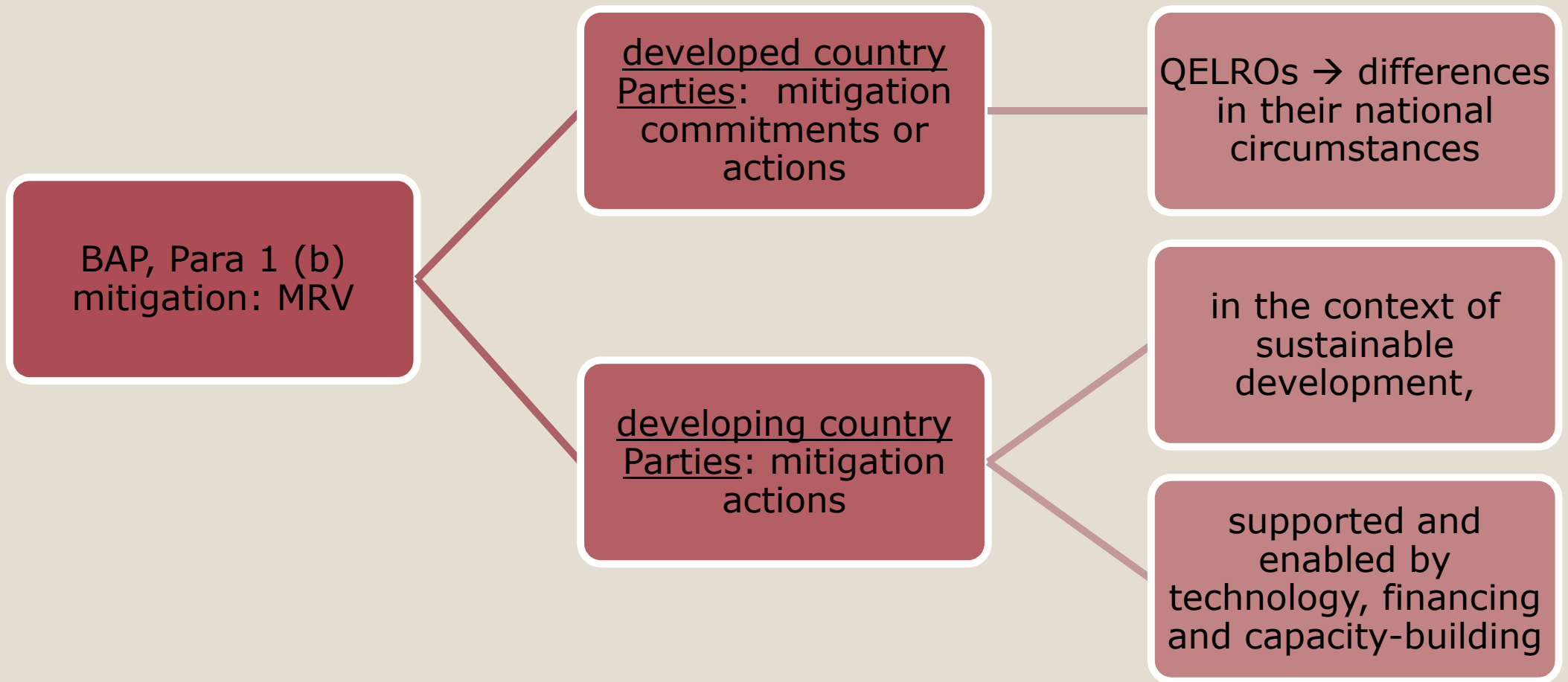
Review Art.9

Technology transfer

REDDs

Financial Mechanism: Adaptation Fund

Measurable, reportable and verifiable



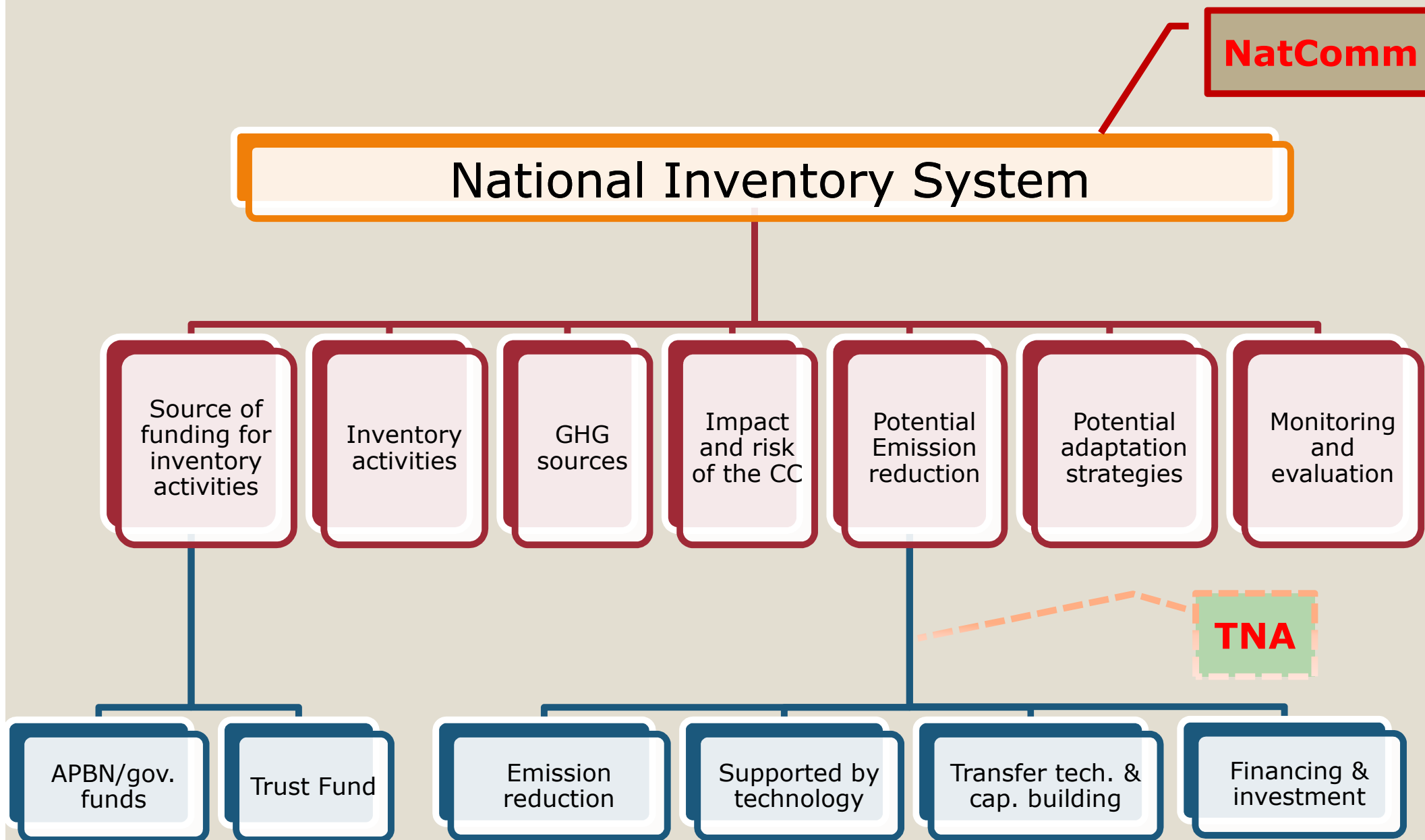
Indonesia's perspective Developed country parties on MRV

- Deeper cuts
 - QELROs
 - Outcomes: range of 25 to 40% from 1990 levels by 2020
 - Use the KP mechanisms
- Setting target on mid-term and long-term period → decided in COP15-Copenhagen
- Contribution to enable developing countries in implementation of the Convention → support in technology, financing and capacity-building in a MRV manner

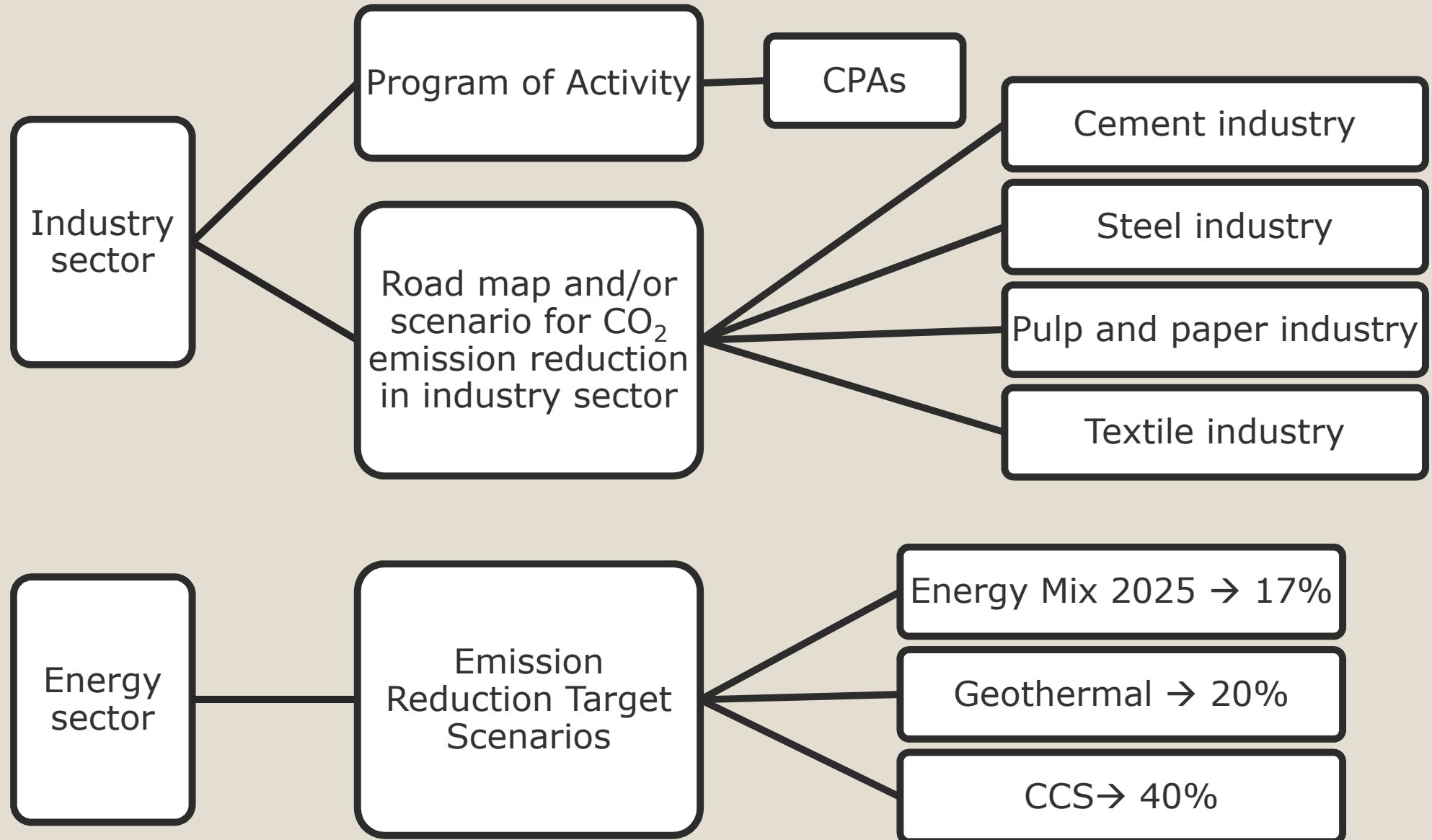
Indonesia's perspective developing country parties on MRV

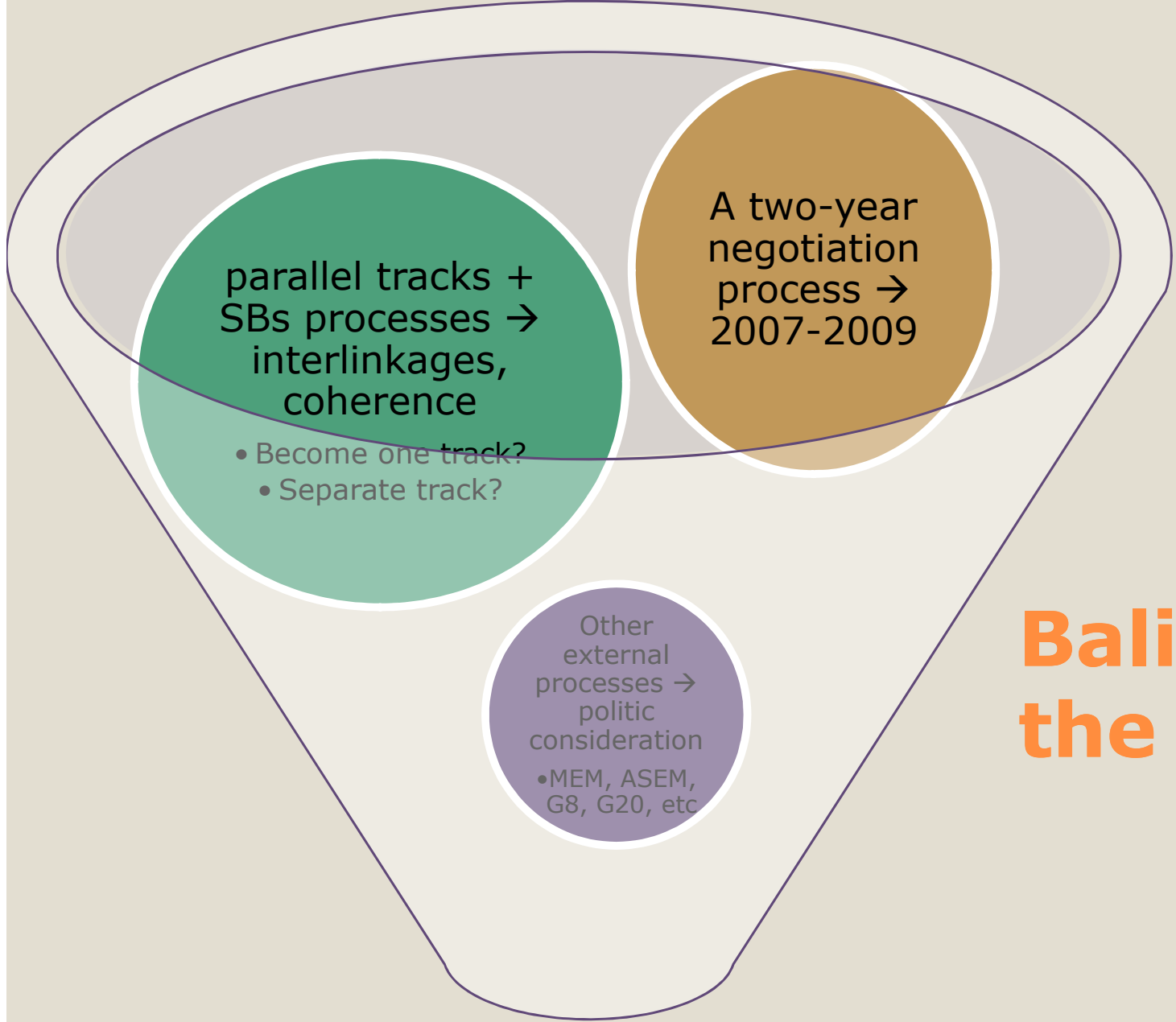
- applies to both nationally appropriate mitigation actions and to the provision of technology, financing and capacity-building → sustainable development parameter/indicator? SD-PAM (The use of SD-PAMs has been proposed as a possible type of action or commitment for some developing countries in the post-2012 framework)
- advances **reporting issues** → *tracking and registering*
 - The potential emission reduction strategies → relative to baseline
 - Need to include source of support
 - Report one format/instrument under Convention → NatComm
- Verification → nationally or internationally review process
 - Identify reasons for non-implementation → renew/review the national strategies

Indonesia's perspective Developing country parties on MRV



Indonesia: approach in *mitigation action* for MRV





parallel tracks +
SBs processes →
interlinkages,
coherence

- Become one track?
- Separate track?

A two-year
negotiation
process →
2007-2009

Other
external
processes →
politic
consideration

- MEM, ASEM,
G8, G20, etc

Bali Road Map: the challenge

COP15 decisions:

18 **future climate change framework**

Further Information:

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Thank You