

# **THE ROLE OF KNOWLEDGE FOR LOW-CARBON and SUSTAINABLE DEVELOPMENT POLICYMAKING IN INDONESIA**

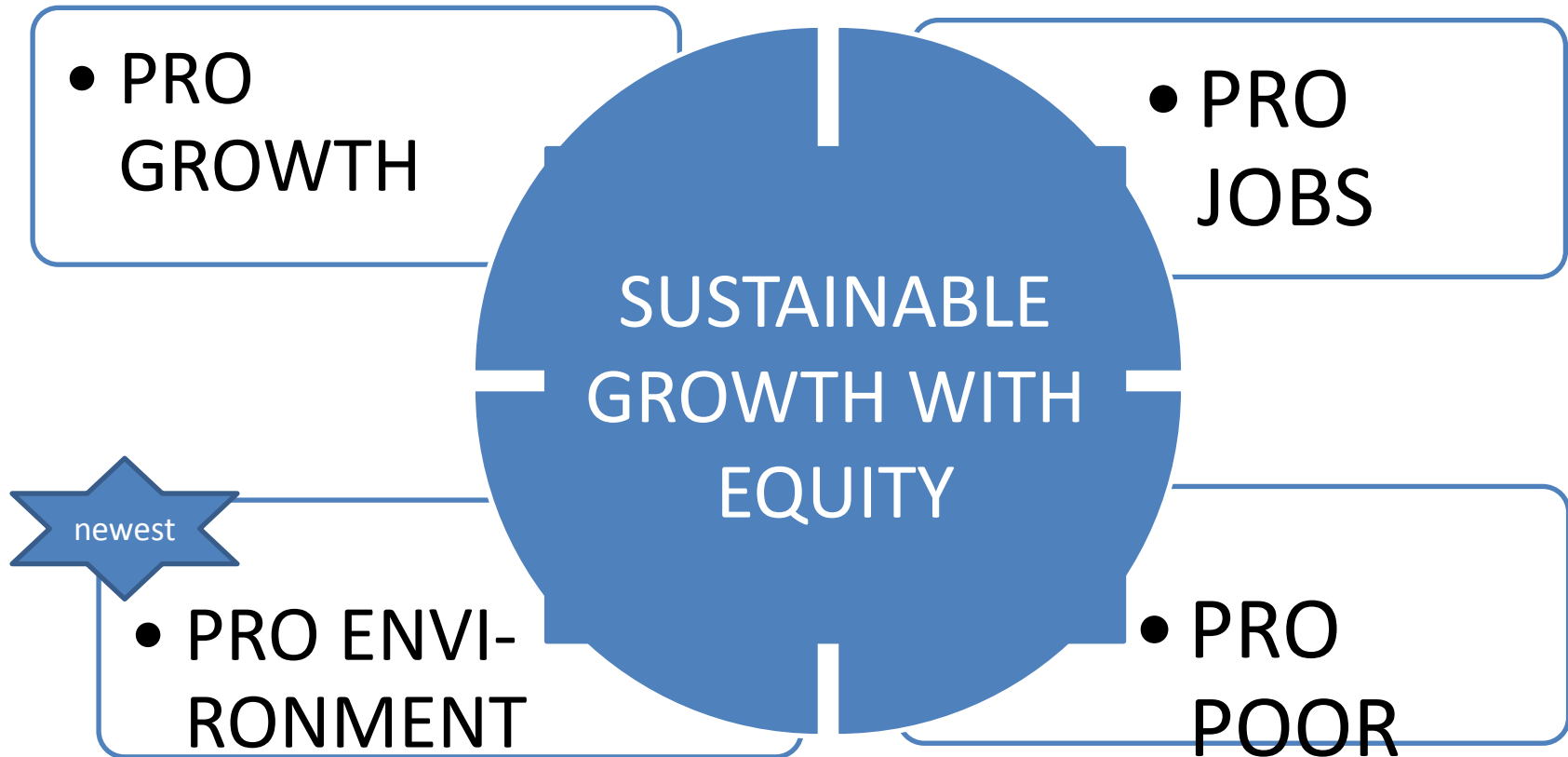
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FOR THE 3<sup>RD</sup> ANNUAL MEETING OF THE LOW CARBON ASIA RESEARCH NETWORK –  
LoCARNet

Bogor, 24-26 november 2014

# 4 DEVELOPMENT STRATEGY 2010-2014





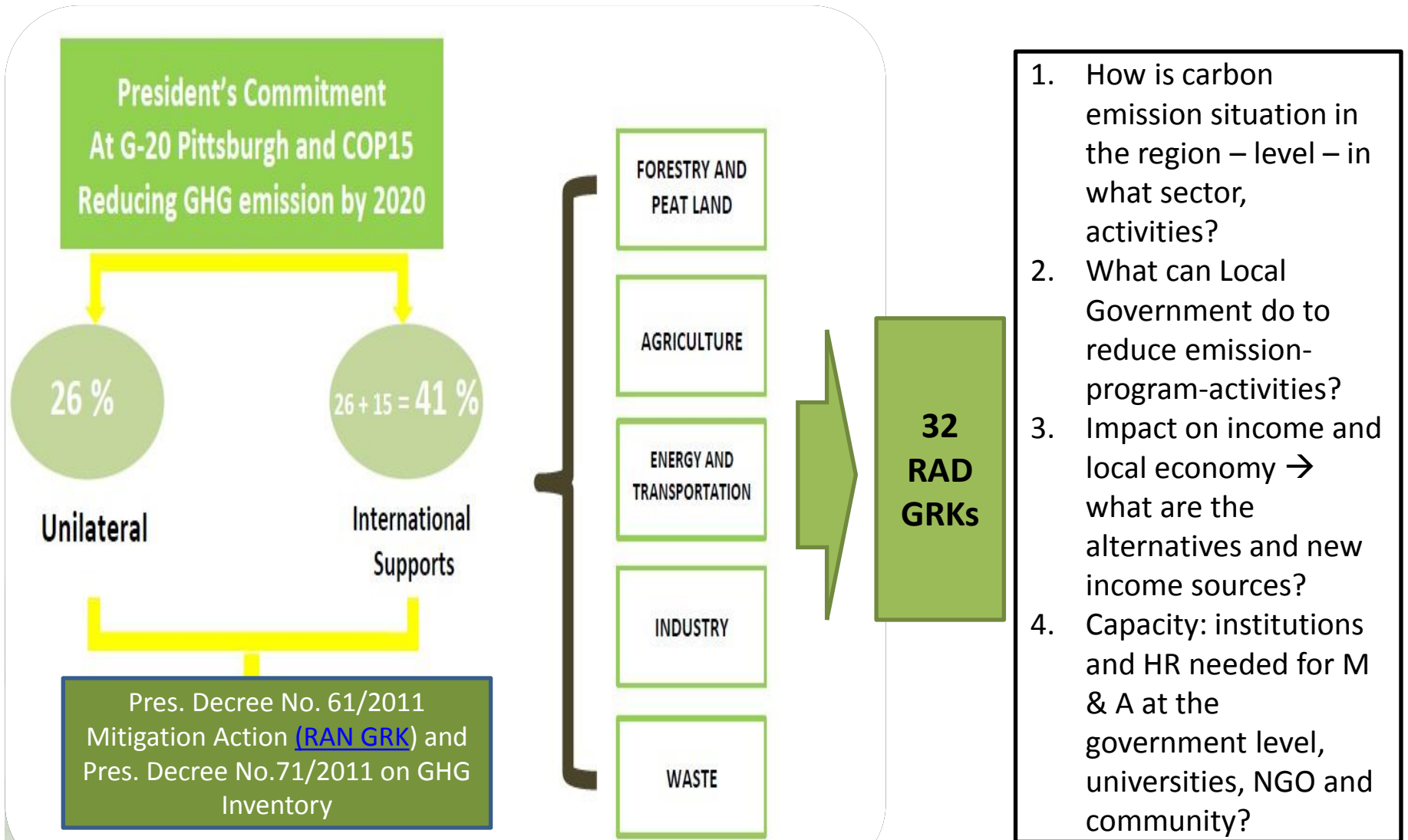
# PRO ENVIRONMENT

1. Since 1972: sustainable development was introduced - Implementation: through environmental Laws and standard → many challenges
2. CONSTRUCTIVE APPROACH:
  - a. 2004 putting: Sustainable development as development mission in the Long Term Development Plan 2005-2025
  - b. 2009: Committed to reducing GHG emission: 26% from BAU by 2020 with own effort and 41% by international support.
  - c. Medium Term Development Plan 2010-2014:
    - i. Sustainable development is mainstreamed into all development aspect
    - ii. Climate Change as cross sectoral program.

## More concrete actions:

1. Climate Change Council (DNPI) – rep. of global climate change talks and negotiations.
2. REDD+ Task Force: (i) moratorium; (ii) One map.
3. 2011: National Action Plan for reducing GHG emission – as Presidential Regulations 61/2011 (RAN GRK) and its GHG inventory in Perpres 71/2011.
4. 2012: 32 Local Action Plan on GHG Emission Reduction (RAD GRK)
5. 2013: 10Y Framework on Sustainable Consumption and Productions (SCP) → launched on the Earth Day in Jakarta
6. 2014: NATIONAL ACTION PLAN ON ADAPTATION (RAN API)

# NATIONAL ACTIONS PLAN ON GHG EMISSION REDUCTION



# National Action Plan GHG emission Reductions

## ACTIONS

1. Forestry and peatland:
  - a. Sustainable forest management
  - b. REDD+
2. Agriculture - Sustainable farming:
  - a. Use degraded land
  - b. Sustainable plantation – ISPO
  - c. Optimum water use and resources, and use of organic material (fertilizer, pesticide and pest management)
3. Waste management:
  - a. Reuse and recycle
  - b. Waste to energy
4. Energy and Transportations:
  - a. Traffic management
  - b. Reduce fuel subsidy
  - c. Shift to public transportation
  - d. Efficient energy use
  - e. Clean energy sources: gas, geothermal
  - f. Renewable energy
5. Industry:
  - a. Clean technology
  - b. Energy efficiency

## Executing Agency and National Program (Development Plan)

### Executing agency

Mo Forestry,  
 REDD Task Force/Agency  
 Mo Agriculture  
 Mo Public Works  
 Mo Energy  
 Mo Transportation  
 Mo Industry

### Actions/activities:

153 activities:  
 a. 63 direct  
 b. 66 supporting  
 c. 24 enablers (data, information, educations/ communications)

Estimated emission reductions from each activities.

# **THE ROLE OF RESEARCH AND ACADEMIA:**

## **1. NATIONAL ACTION PLAN - formulation**

- Knowledge and awareness
- Setting national target: total and sectoral target (baseline, BAU, projection etc.)
- Formulation of actions to reduce emission in the sector

## **2. NATIONAL ACTION PLAN – Implementation and monitoring**

- The role of science in developing a monitoring system – calculation of the target activities- target

# Framework for implementation

Coordination Team

Chair of CC coordination Team

Secretariate

WG on Land  
base activities

WG on Energy  
related Activities

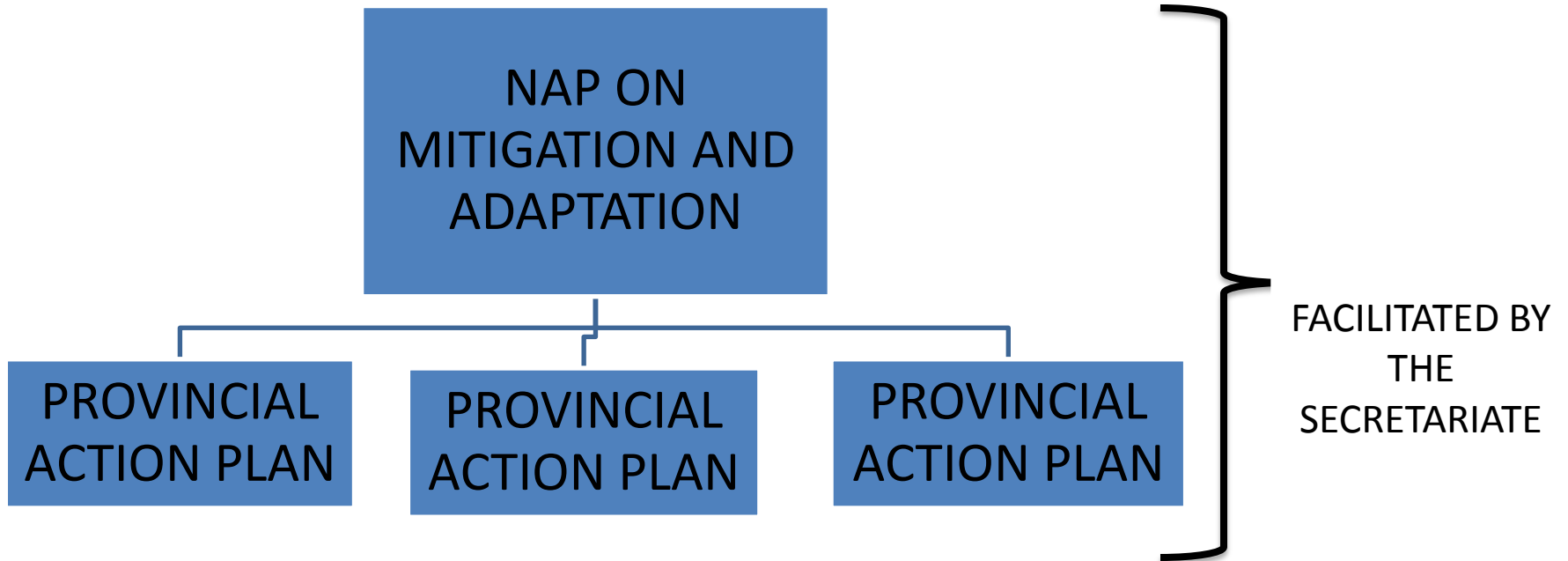
WG on  
Addaptation

SMALL MANAGEMENT TEAM (3):

- SECRETARIATE: MANAGING COMMUNICATION WITH STAKEHOLDERS AND FACILITATION
- WORKING WITH EXPERT FROM NGOS AND UNIVERSITIES

SUPPORTED BY ICCTF –  
INDONESIA CLIMATE CHANGE  
TRUST FUND

# National and Provinces ACTION PLAN (33)



## COOPERATION WITH LOCAL EXPERTS:

1. ESTIMATION OF TARGET AND MEASUREMENT: TOTAL AND SECTORAL
2. IDENTIFICATION OF ACTIVITIES AND MEASUREMENT
3. ESTIMATION AND IMPLEMENTATION ACTIVITIES
4. MONITORING FRAMEWORK AND MEASURING RESULTS



# THE ROLE OF SCIENCE IN ADAPTATION PLAN

## **1. Development of RAN-API**

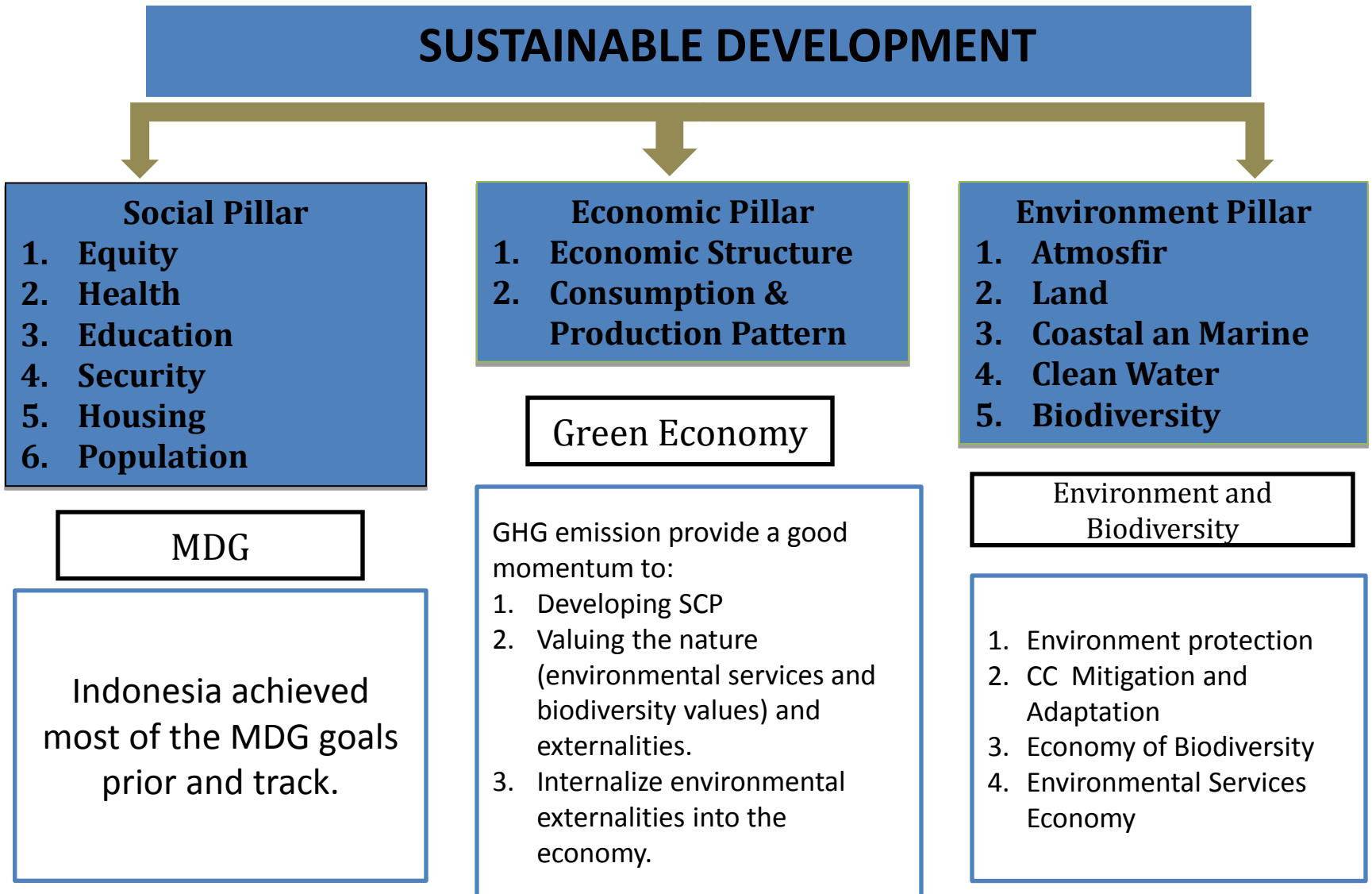
- Identification of risk – vulnerability map and indicator
- Formulation of Climate Change Adaptation Actions
- Data and Information needed
- Integration between DRR and CCA
- Gender Mainstreaming in CCA Action Plan

## **Implementation of RAN-API**

- Development of Pilot Areas for RAN-API at local and regional level
- Integration of CCA into Local Development Plans
- Monitoring and Evaluation of CCA



# Moving to Green development-Sustainable development



# on going (2012)

## ***10Y FRAMEWORK FOR SUSTAINABLE CONSUMPTION AND PRODUCTIONS (SCP)***

### **PRODUCTION:**

1. AGRICULTURE
2. ENERGY AND MINING
3. INDUSTRY
4. CONSTRUCTIONS: BUILDING & OTHERS
4. SERVICES SECTOR: FINANCE, TOURISM, ENV. SERVICES, EXPERTISE/CONSULTANCY

### **CONSUMPTION:**

1. HOUSEHOLD
2. CORPORATE
3. LIVING: CITY, STYLE....

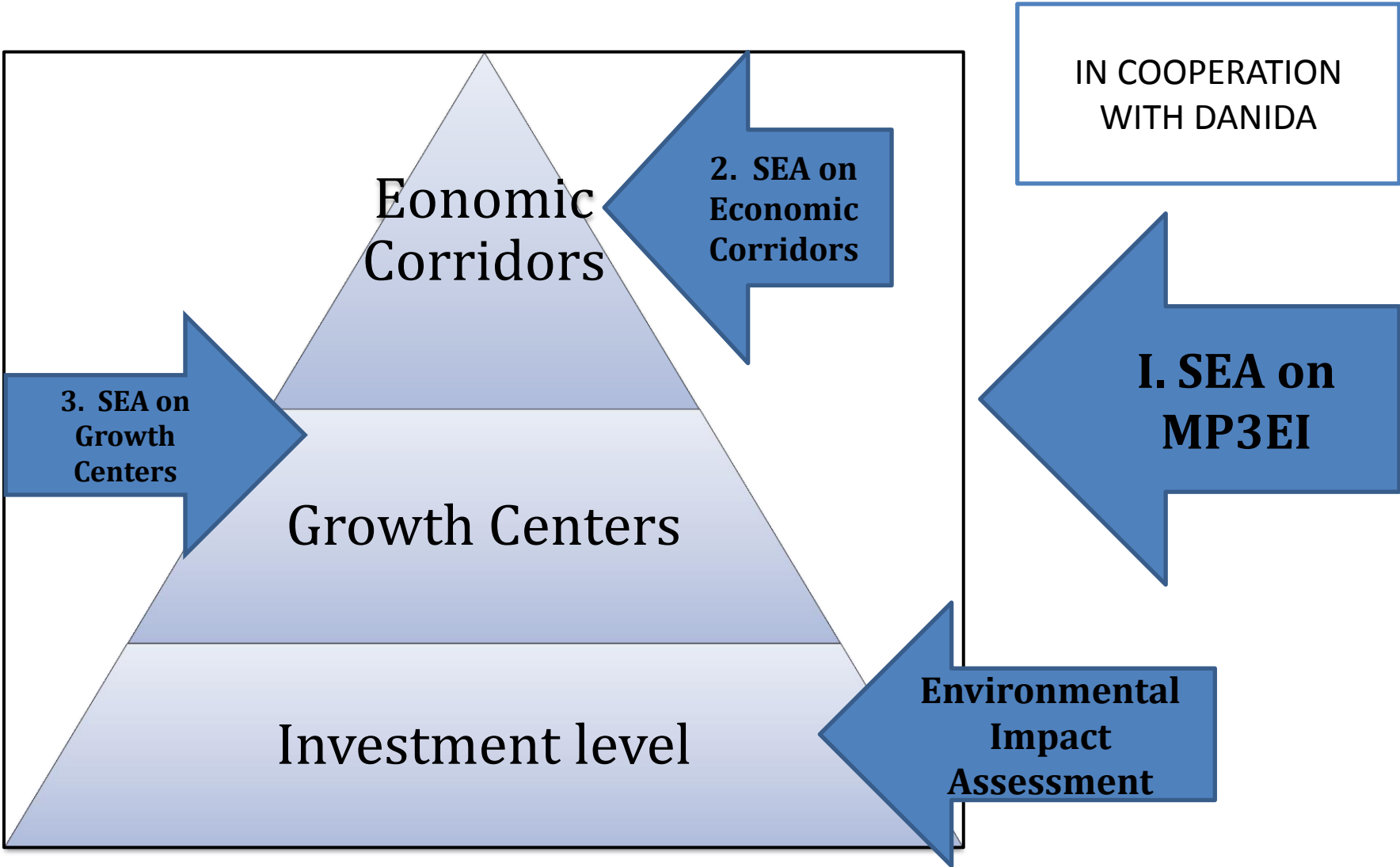
**LAW AND REGULATIONS: RULES, PROCUREMENT, STANDARDS**

**HRD: CAPACITY AND COMPETENCIES NEEDED FOR SCP IMPLEMENTATION**

**SCI-TECH: Green technologydan knowledge**

**DATA AND INFORMATION: COMMUNICATION, INFORMATION & DATA BASE**

# Greening the Master Plan(example)- SEA



# SUSTAINABLE DEVELOPMENT BECOME MORE IMPORTANT

IN MAKING A BETTER QUALITY OF DEVELOPMENT:

1. SUSTAINABLE DEVELOPMENT → PEOPLE-PROFIT-PLANET, SUPPORTED BY THE RIGHT INSTITUTIONS
2. LOW MIC → SUSTAINABLE GROWTH PATH - TO AVOID MIDDLE INCOME TRAP
3. POPULATION GROWTH → FOOD, ENERGY ANDSPACE?

# GREEN → as opportunity to broadening growth in a more sustainable way

1. Broadening **spatial** base sustainably → increase share of outside Java economy
2. Broadening the **participant**: example, Economic growth in all parts of Indonesia → promote processing of natural resources → moving from primary sector to secondary sector/manufacturing → more value added, more business partners and SMEs and higher quality of jobs
3. Broadening “**commodity**” base → finding and developing new economy base – environment services and biodiversity values:
  - a. Environmental services economy – economy that is generated from “transaction of environmental good and services”:
    - i. Carbon absorption and sink services generated by forest and other land cover including mangrove
    - ii. Economic activities from nature: ecotourism and cultural tourism, including local craft
  - b. Economy of biodiversity – develop bioprospecting both land base and ocean base - strategic issue in**
  - c. Economic creatives: arts, film, music, etc.
  - d. Green jobs: new profession due to development of green activities → opportunity for educated labor forces

**THANK YOU**