

Integrating Asian Wisdom: Low Carbon Asia Research Network LoCARNet for Green Growth

**International Symposium on
Sustainable Low Carbon Asia Research and Policy Dialogue**

9 July 2012

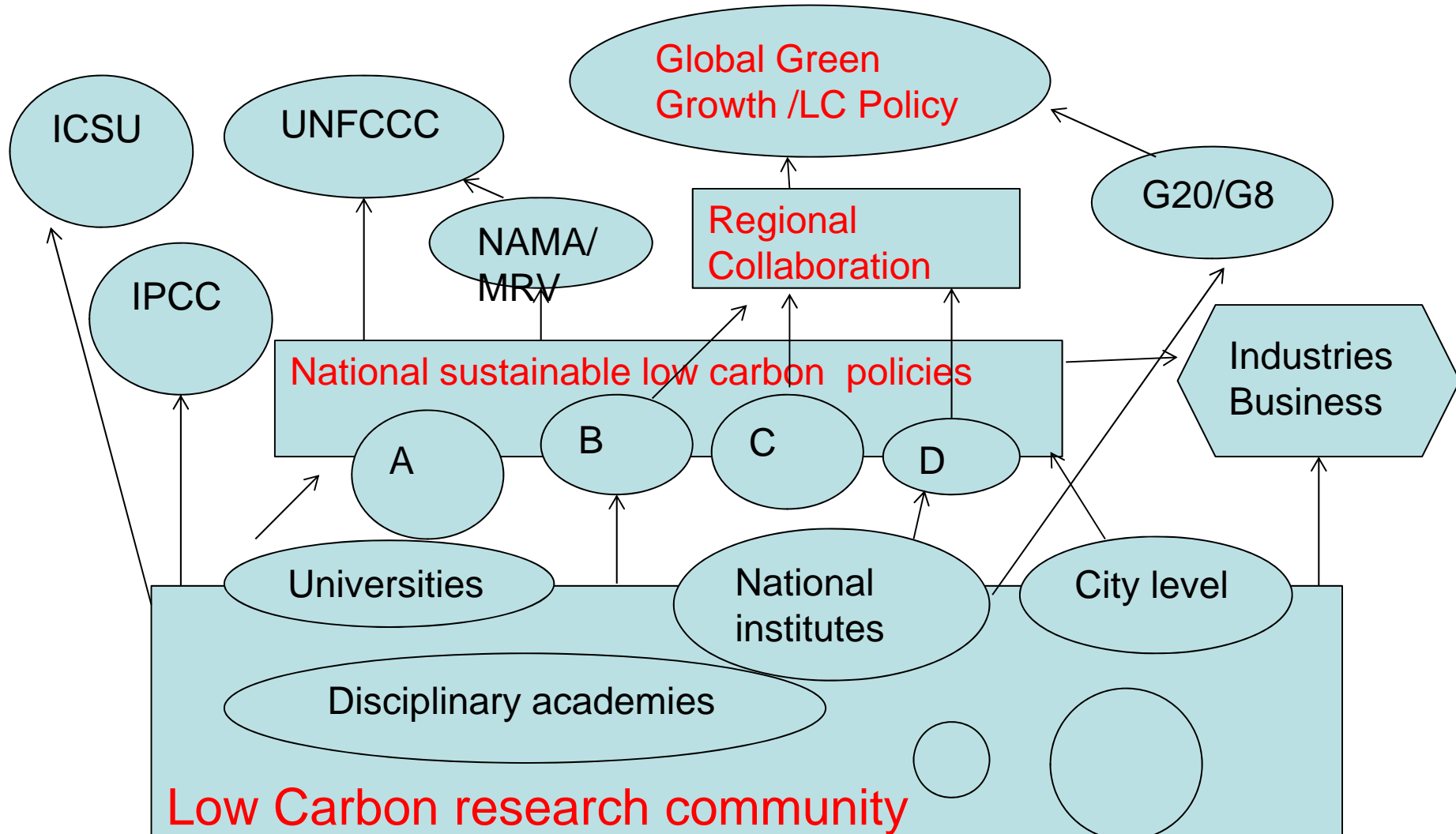
Johor Bahru, Malaysia

Dr. Shuzo Nishioka

Secretary General, LoCARNet

Institute for Global Environmental Strategies (IGES)

Low Carbon society research community supporting global green growth



LoCARNet: Low Carbon Asia research Network

Research Institutions/ researchers' network dedicating directly in LCS policy making process



Mohamad Bin SA'ELAL
Malaysia



Sirintornthep TOWPRAYOON
Thailand



Rizaldi BOER
Indonesia



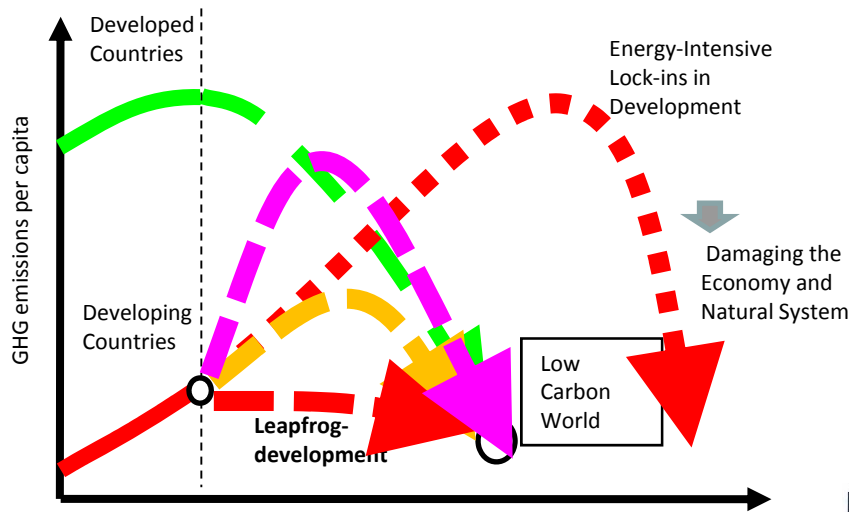
Ho Chin SIONG
Malaysia



Mikiko Kainuma
Japan



Bundit LIMMEECHOKCHAI
Thailand



Yutaka MATSUZAWA
Japan



Hak MAO
Cambodia



Jiang KEJUN
China



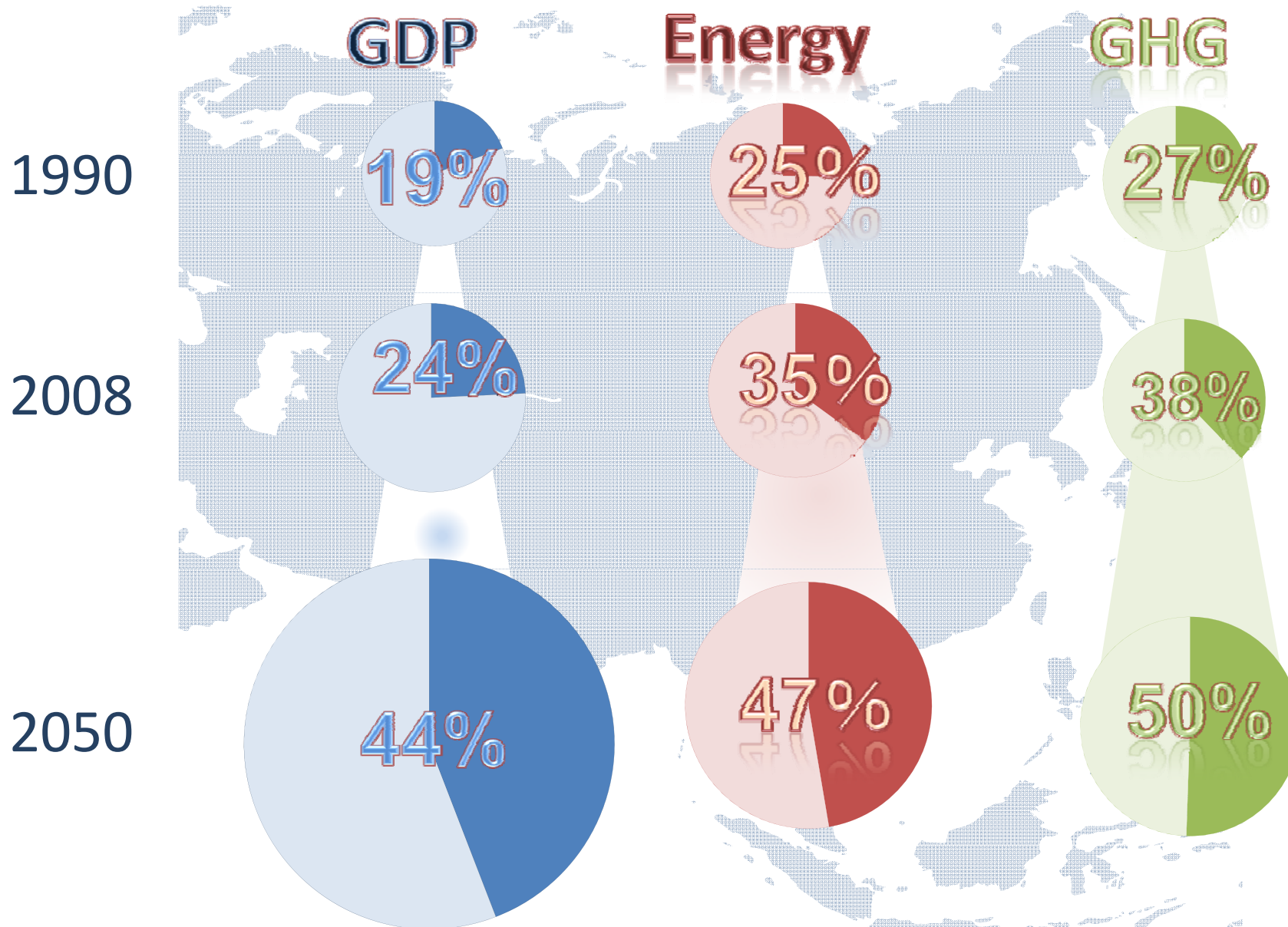
Launching the
“**Low Carbon Asia Research Network (LoCARNet)**”
as a central core for providing knowledge

- LCS-Rnet/IGES/NIES has been conducting workshops that promote dialogues between policy-makers and researchers in Indonesia, Thailand, Cambodia, Vietnam and Malaysia, as well as networking among researchers in this region, to encourage low-carbon growth in Asia.
- During the course of these workshops, the growing importance of research society for low-carbon growth in Asia was strongly recognized.
- Japan proposed the establishment of “Low Carbon Asia Research Network (LoCARNet)” at ASEAN+3 EMM held in October 2011 in Phnom Penh.
- The launch of the **LoCARNet** was declared by Minister of Environment at the “East Asia Low Carbon Growth Partnership Dialogue” held in April 2012 in Japan as an element of **East Asia Knowledge Sharing Platform for Low Carbon Growth**
- Organization in process now

Why we need network?

- Urgent needs of science-based climate policy
- Necessity of integration of knowledge
⇒ organization of research community
- Communication between research and policy
⇒ Dialogue and participation
- Specific and common research fields in the region
⇒ S-S co-operation
- Still, lack of local capacity and ownership of knowledge

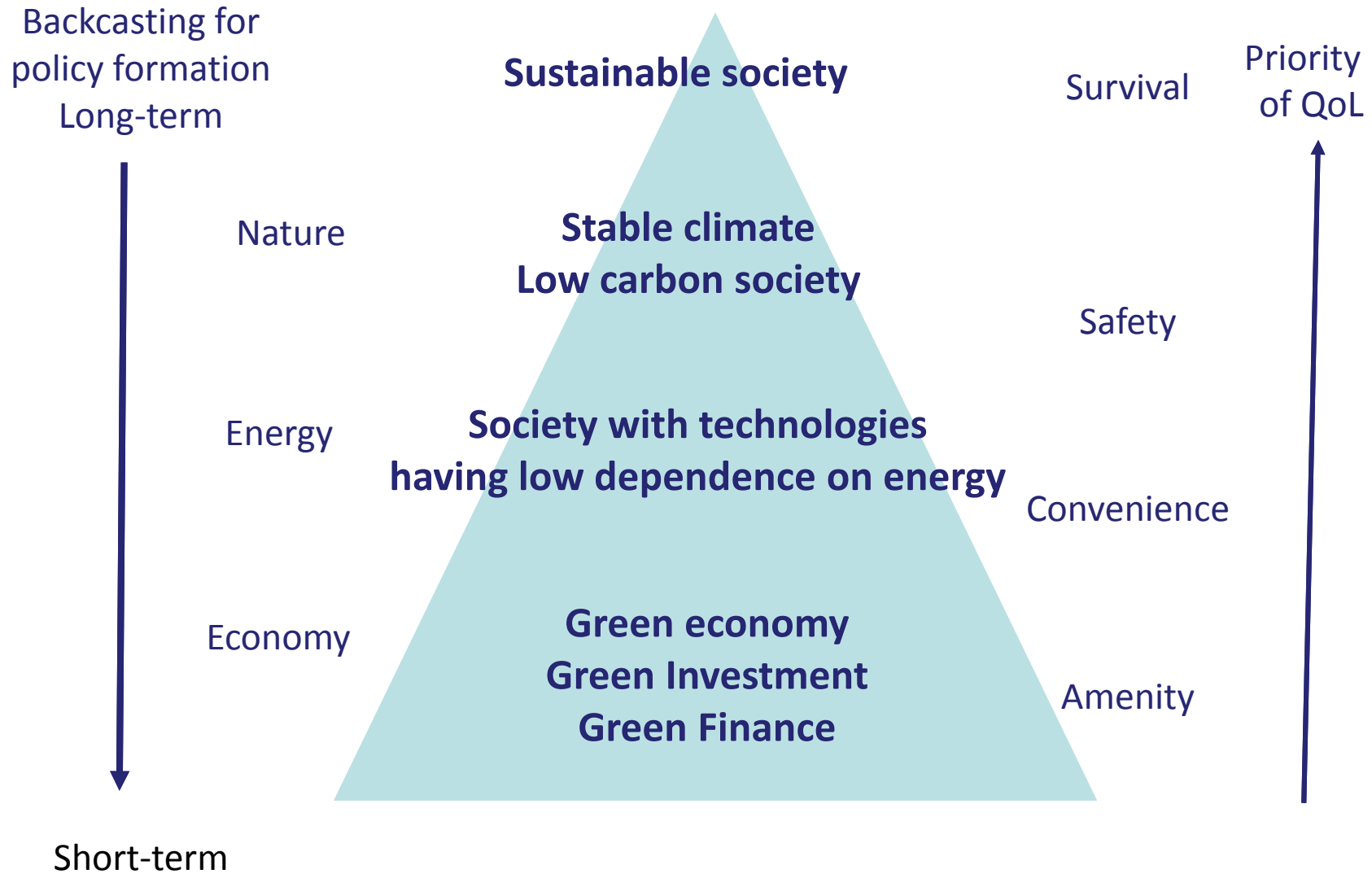
Growing importance of actions towards low-carbon development in Asia



Source: Presentation by Dr. Mikiko Kainuma (Nov. 2011)

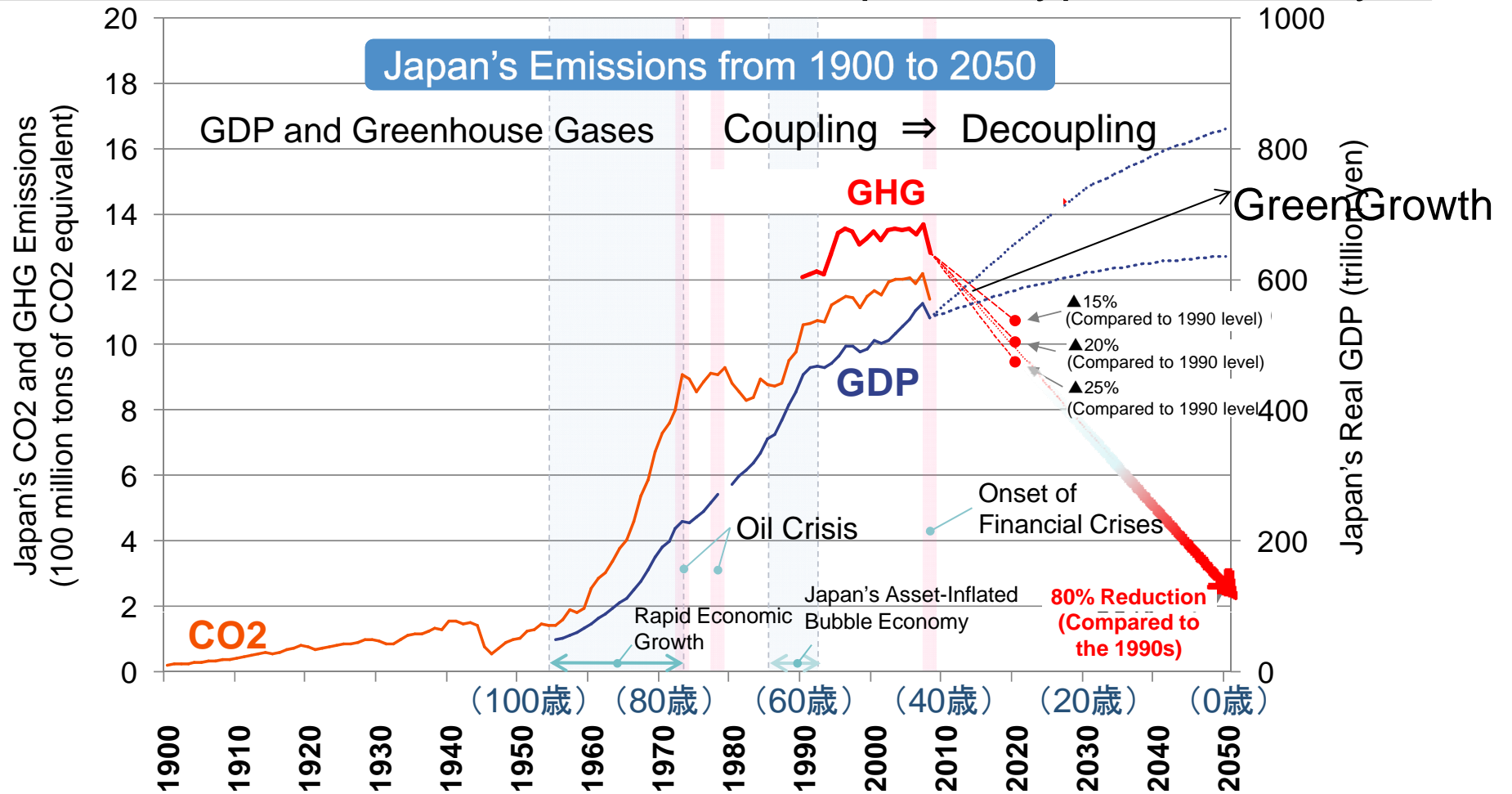
Prioritise policy targets

Stable climate > Energy > Economy



Japan struggling to emerge from an economy locked into hi-carbon emission

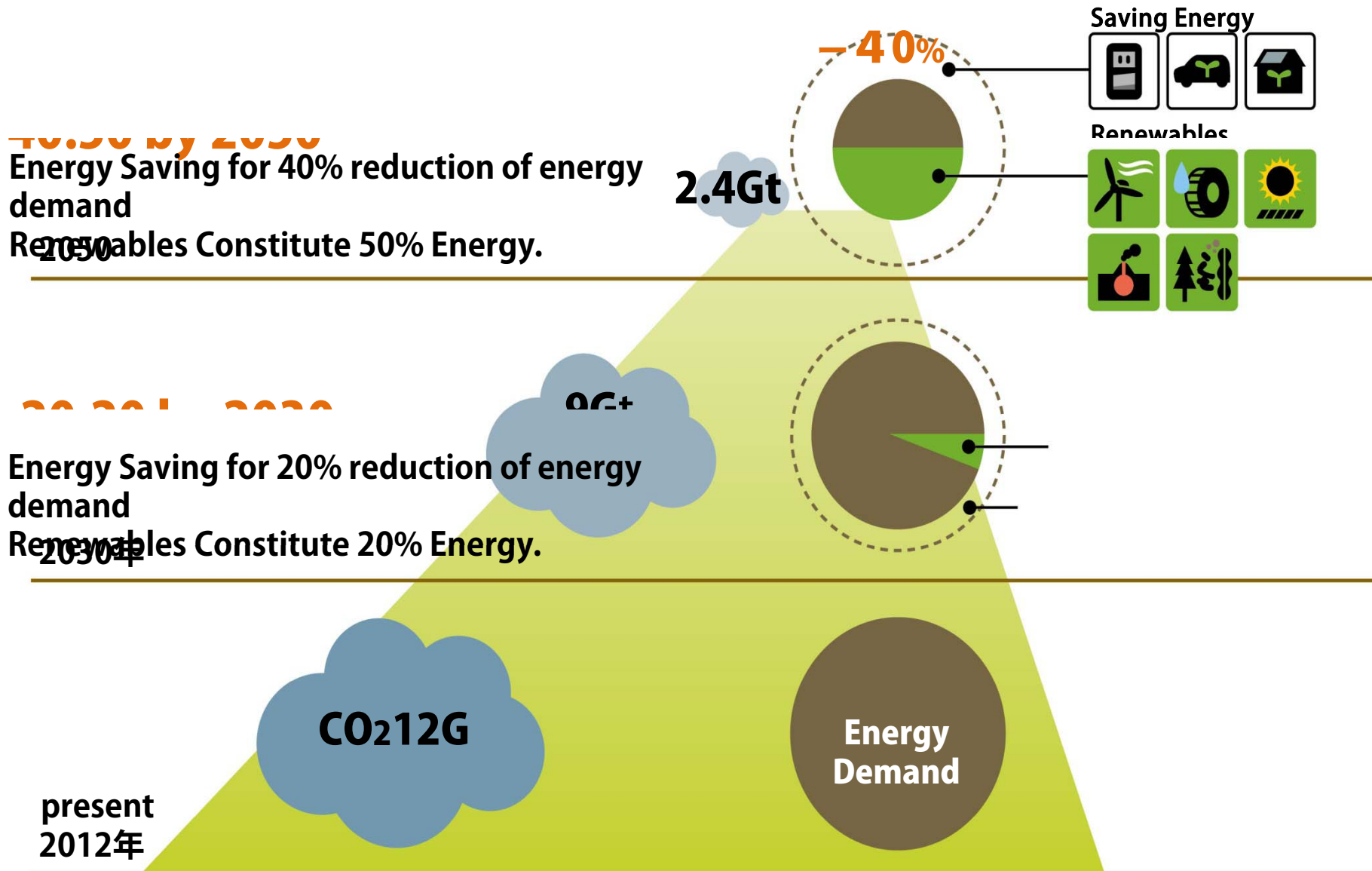
GHG emission of 50% reduction by 2050
An enormous transition towards an unexplored types of society



2) Future GDP values are assumed values based on scenarios A and B from the NIES Low Carbon Society Research Project 2050

Towards Low Carbon, Green Economy

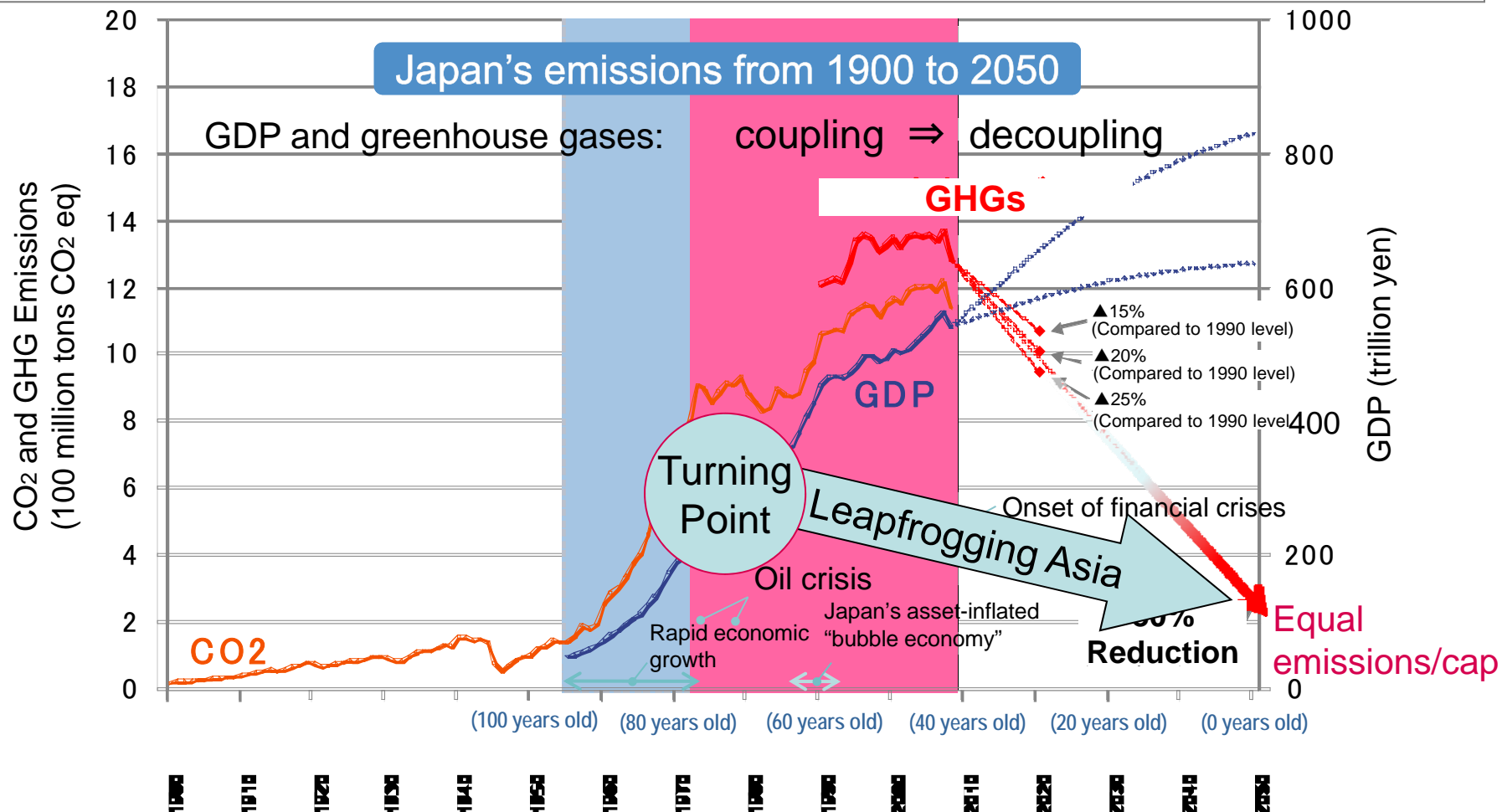
Energy Saving, Renewables Reduce GHG by 80% through



Proposed in June 2012 by Central Council of Environment, as alternatives of low carbon policy after Fukushima

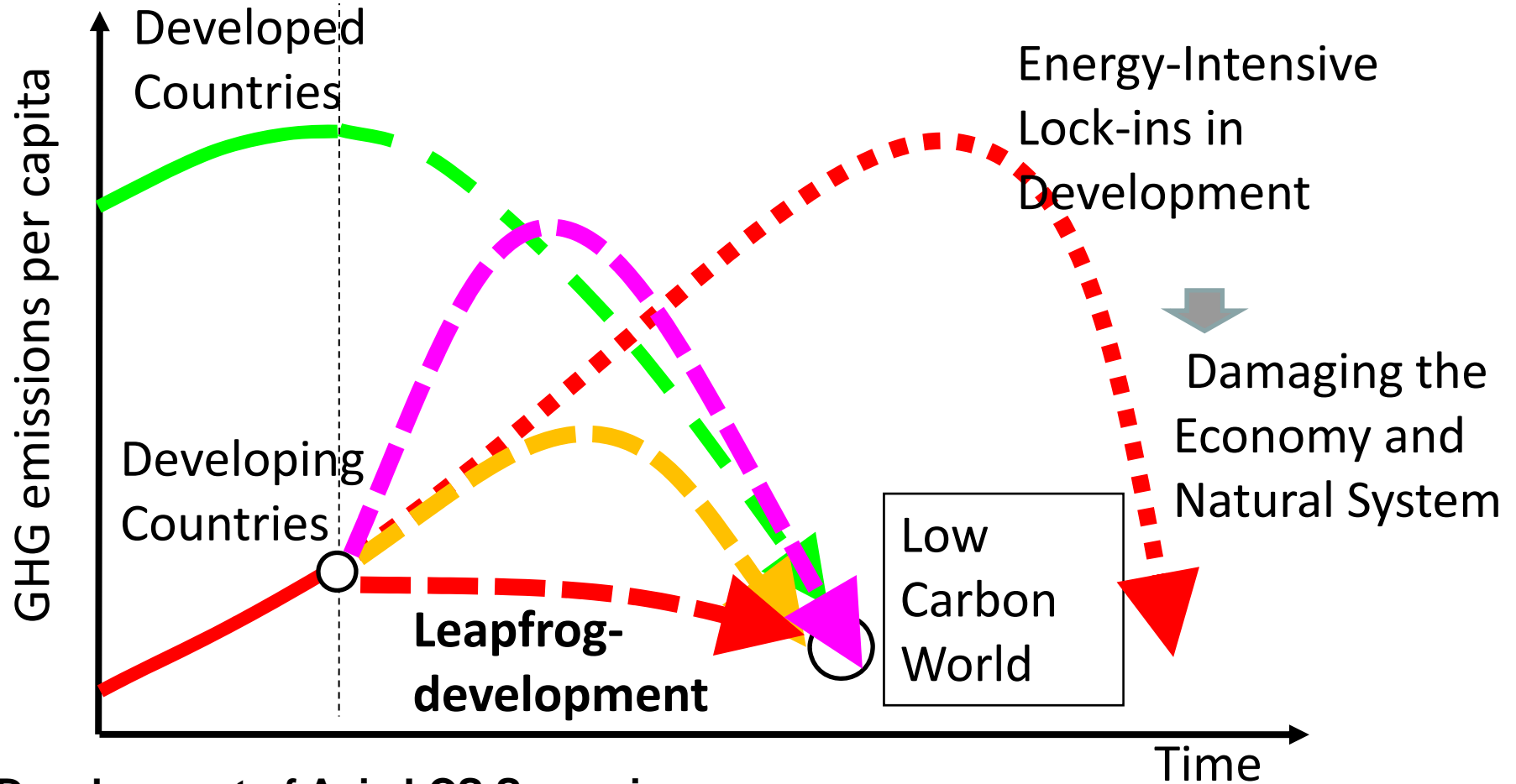
Japan struggling to emerge from an economy locked in to high carbon emissions

**GHG emission reductions of 80% by 2050:
An enormous transition towards an unexplored type of society**



Future GDP: Based on scenarios A and B from the NIES Low Carbon Society Research Project 2050

Low carbon/ green growth path



Development of Asia LCS Scenarios

- (1) Developing narratives for LCS scenarios
- (2) Quantifying future LCS visions
- (3) Developing robust roadmaps

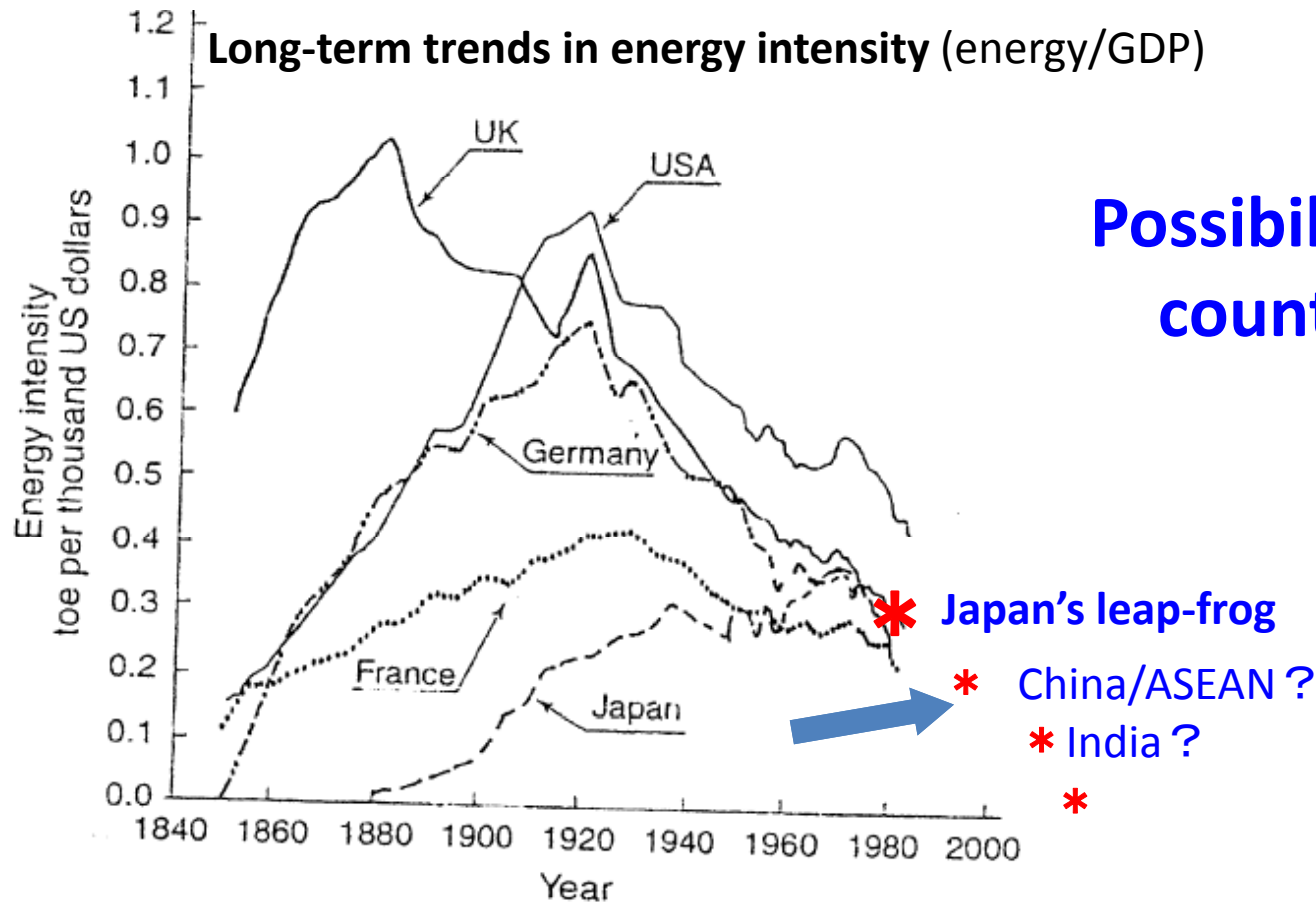


Policy Packages for Asia LCS

- Encouraging LCS policies in each Asian country
- Informing international negotiations with science
- Networking LCS research in Asia

Opportunities for Asia:

Freedom from past track of highly energy-dependent technologies



Possibility of Asian countries' leapfrog

- How can we facilitate technological leap-frogging to promote low carbon development?
- What kinds of mechanisms (international/national, market/non market) could facilitate leap-frogging to low carbon technologies?

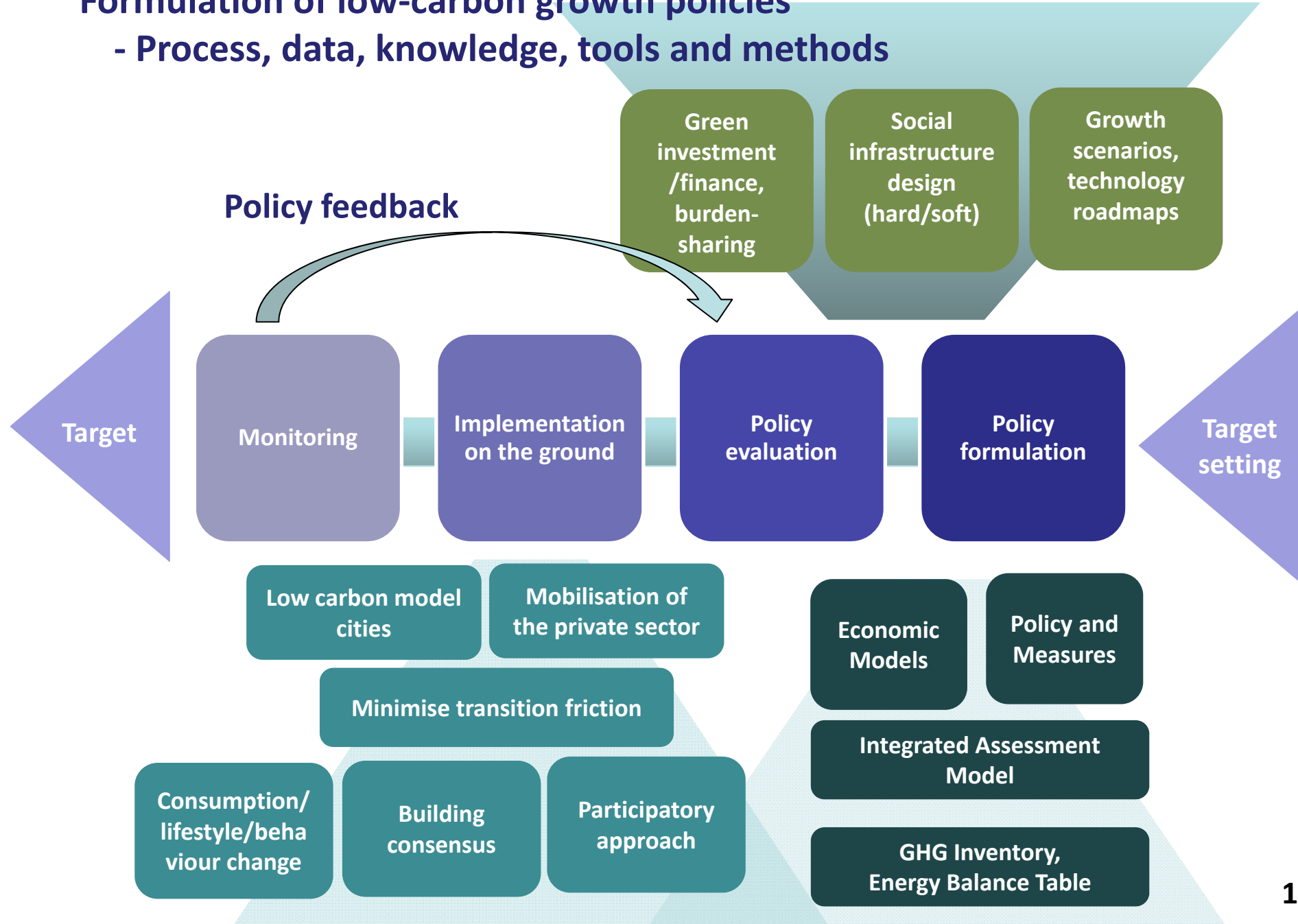
From J. Goldenberg (modified)

Why we need network?

- Urgent needs of science-based climate policy
- Necessity of integration of knowledge
⇒ organization of research community
- Communication between research and policy
⇒ Dialogue and participation
- Specific and common research fields in the region
⇒ S-S co-operation
- Still, lack of local capacity and ownership of knowledge

Formulation of low-carbon growth policies

- Process, data, knowledge, tools and methods



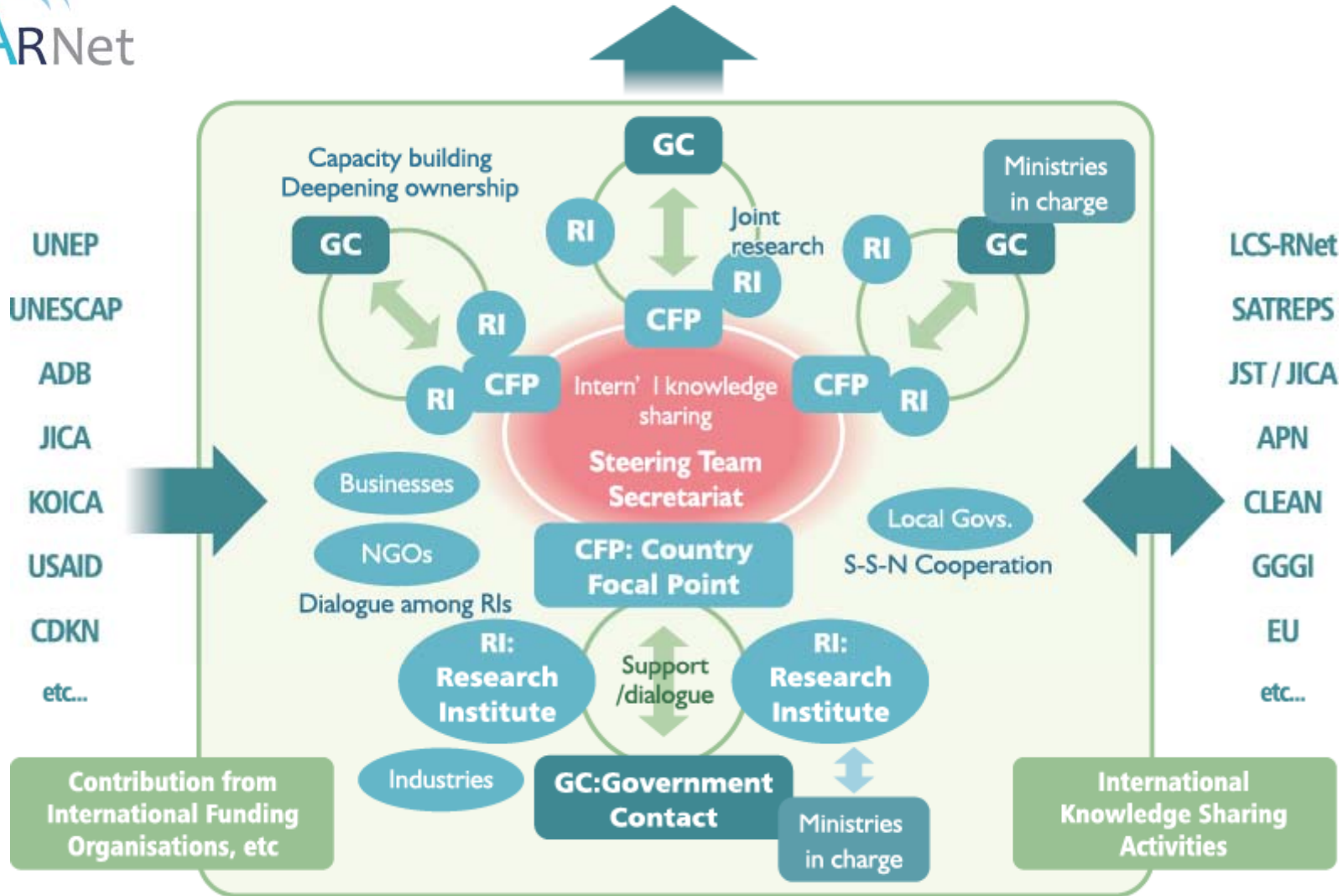
Why we need network?

- Urgent needs of science-based climate policy
- Necessity of integration of knowledge
⇒ organization of research community
- Communication between research and policy
⇒ Dialogue and participation
- Specific and common research fields in the region
⇒ S-S co-operation
- Still, lack of local capacity and ownership of knowledge

Framework of “Low Carbon Asia Research Network (LoCARNet)”

LoCARNet is a multi-layered, flexible network for researchers to contribute to low carbon policy-making.

Input to International Policy Arena (G8/G20 UNFCCC)



LoCARNet - Activities and Uniqueness

- **Network of prominent researchers** who are deeply involved in low-carbon growth policy processes in this region.
- **Science-Science-Policy Dialogue**: LoCARNet promotes research for policies towards low-carbon growth by enabling a sufficient amount of dialogue between scientists and policy-makers.
- **Ownership of knowledge by countries**: LoCARNet also encourages collaboration amongst researchers in-country whose research capacity and scientific knowledge are firmly grounded in their home countries.
- **South-South-North Collaboration**: LoCARNet aims to increase in research capacity in the AP region through knowledge sharing and information exchange, in the scheme of not only north-south cooperation, but also south-south regional cooperation.

LoCARNet is an autonomous research network, operated through voluntary initiatives by researchers in various countries, sustaining close links with other like-minded stakeholders.

LoCARNet - Basic activities (1)

LoCARNet is a network of leading researchers/research organizations who are engaging sincerely in low carbon policy in Asian countries.

1. Facilitating collaboration amongst researchers in the Asia-Pacific region who conduct research on low-carbon growth in various countries around the region.

- Advancing the sharing of knowledge amongst researchers
- Strengthening the networking amongst research institutes
- Cooperating with researchers and research institutes to enable them to develop their own, robust scientific research foundation on low-carbon growth

2. Promoting sufficient dialogue between researchers and policy-makers

- holding dialogues with policy-makers in Asian countries
- cooperating with policy-makers within each country

Basic activities (2)

3. Encouraging collaboration with low-carbon research and policy formulation activities executed by other networks or organisations

- Advancing knowledge sharing activities with low-carbon research and policy formulation activities in other areas

4. Working to address and resolve common issues of the region by conducting joint research on low-carbon growth

- Conducting joint research activities on low carbon growth
- Introducing and mutually utilising joint research outcomes
- Conducting outreach to the region regarding research outcomes

Basic activities (3)

- 5. Contributing to the formulation and implementation of science-based policies for low-carbon development in the region through dissemination and outreach regarding network activities**
 - Disseminating outcomes of network activities in a broad and proactive manner
 - Developing synthesis reports on low-carbon growth research in Asia

LoCARNet - planned activities in 2012



- **2012 May**: APN Low Carbon Initiative Programme (APN Fund), composed of 1) Regional-based research, 2) Capacity Development, and 3) Networking activities (with LoCARNet)
- **2012 July 9**: Policy-makers' panel at Johor Bahru Symposium on LoCARNet future activities from policy-makers' point of view
- **2012 July 23 (at ISAP, IGES)**: LoCARNet Kick-off Meeting to discuss not only LoCARNet future activities, but also its organisational architecture, operation, management, etc, with leading researchers/research institutes
- **2012 July 24 (at ISAP, IGES)**: One of the breakout sessions under the theme of "Green Economy", entitled "East Asia Knowledge Platform for Low Carbon Growth - Knowledge in Action for Policy and Investment"
- **2012 September 18 (at LCS-RNet 4th Annual Meeting in Oxford, UK)**: One session on "Regional co-operation: Asian case study"
- **2012 Autumn-**: LoCARNet First annual meeting (tbd) somewhere in the region
- **2013 ⇒** LoCARNet will be expected to become an **autonomous researchers' network** based **on south-south cooperation** in the region.

Asia Pacific Network for Global Change Research Focused Activity on Low Carbon Initiatives

- FY2012/2013 to FY2014/2015

- Budget US\$300,000/y

- Components (TBD)

- 1) Regional-base research activities

- joint research of more than three countries

- 2) Capacity building activities

- 3) Networking/Communication activities

- Networking events co-organized by APN and LoCRNet

Integrating Asian wisdom
Thank you for your kind attention!



Save our common climate