

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

アジアの知恵を結集する: グリーン成長に向けた
低炭素アジア研究ネットワーク (LoCARNet)

ISAP2012 24 July 2012 Yokohama, Japan

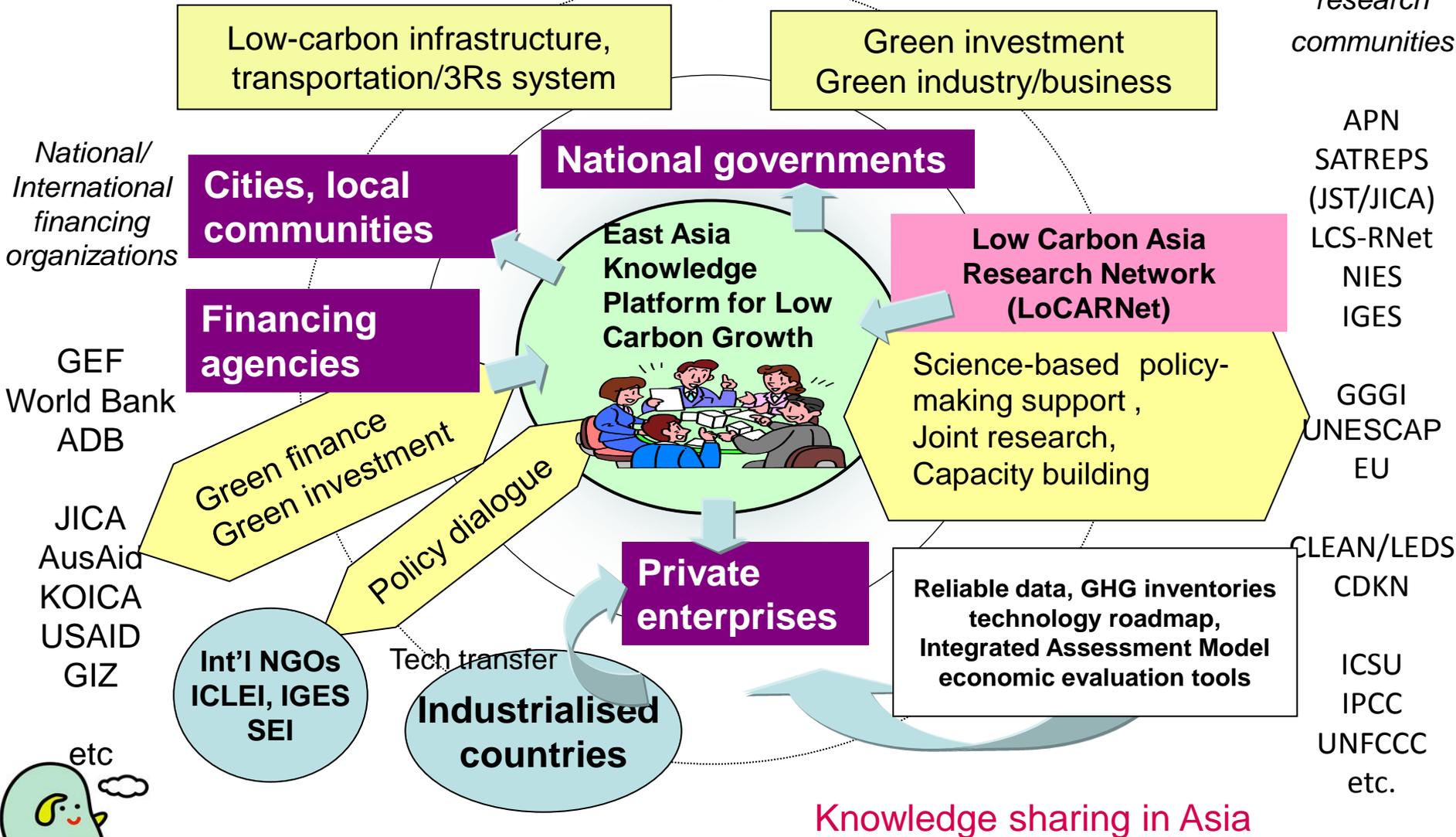
Dr. Shuzo Nishioka
Secretary General, LoCARNet
Institute for Global Environmental Strategies (IGES)

LoCARNet as a Think Tank

for the East Asia Knowledge Platform for Low-Carbon Growth

低炭素成長ナレッジ・プラットフォーム
シンクタンクとしての役割を担うLoCARNet

International
research
communities



The spirit of LoCARNet

A Japanese old maxim

- You cannot say you mastered knowledge until you use it in action on the ground

Ekiken Kaibara (1630-1714)

- 知っていてもそれを行動に移さないのであれば、知らない者となんらかわりは無い。

知 知
ら っ
ず て
に 行
同 わ
じ ざ
ら ば

具原益軒

LoCARNet - Activities and Uniqueness

低炭素アジア研究ネットワークの特長

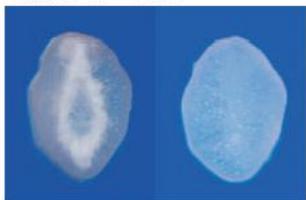
- **Network of leading researchers/research organisations** who are deeply involved in low-carbon growth policy processes in this region.
- **Science-Science-Policy Dialogue**: LoCARNet promotes research for policies towards low-carbon growth by enabling a sufficient amount of dialogue among/between scientists and policy-makers.
- **Ownership of knowledge by countries**: LoCARNet 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.

Climate Change impact already here

In Japan

Agricultural production

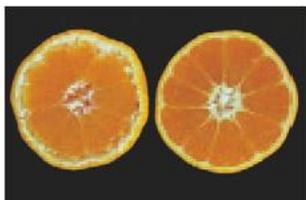
●農作物の被害



白未熟粒 (左) と正常粒 (右) の断面



トマトの花落ち



うんしゅうみかんの浮皮 (左) 健全果 (右)



着色不良のぶどう

Extinction of alpine flora

●お花畑の消失:北海道大雪山系五色ヶ原にて



1990年7月

ハクサンイチゲの大群落

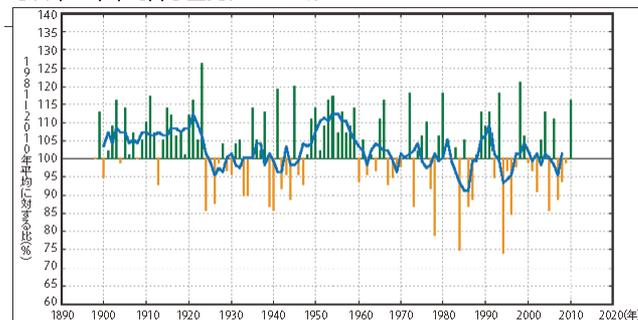


2007年7月

イネ科草原に変化し、お花畑は消失した。
(写真提供:北海道大学工藤岳准教授)

Drought + Flood

●日本の年平均降水量比(1898~2010年)



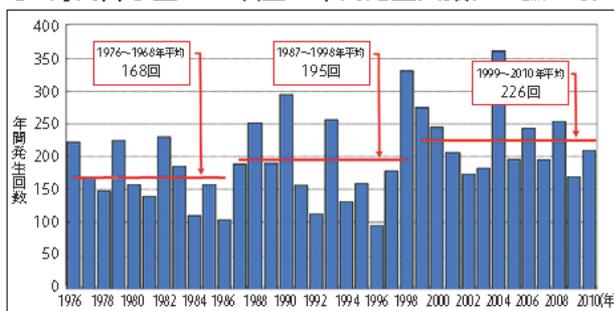
棒グラフは国内51地点での年降水量比を平均した値、青の太線はその5年移動平均。基準値は1981~2010年の30年平均値。

Impact in skiing tourism

●長野県のスキー場と利用者数の推移



●1時間降水量50mm以上の年間発生回数(1000地点あたり)

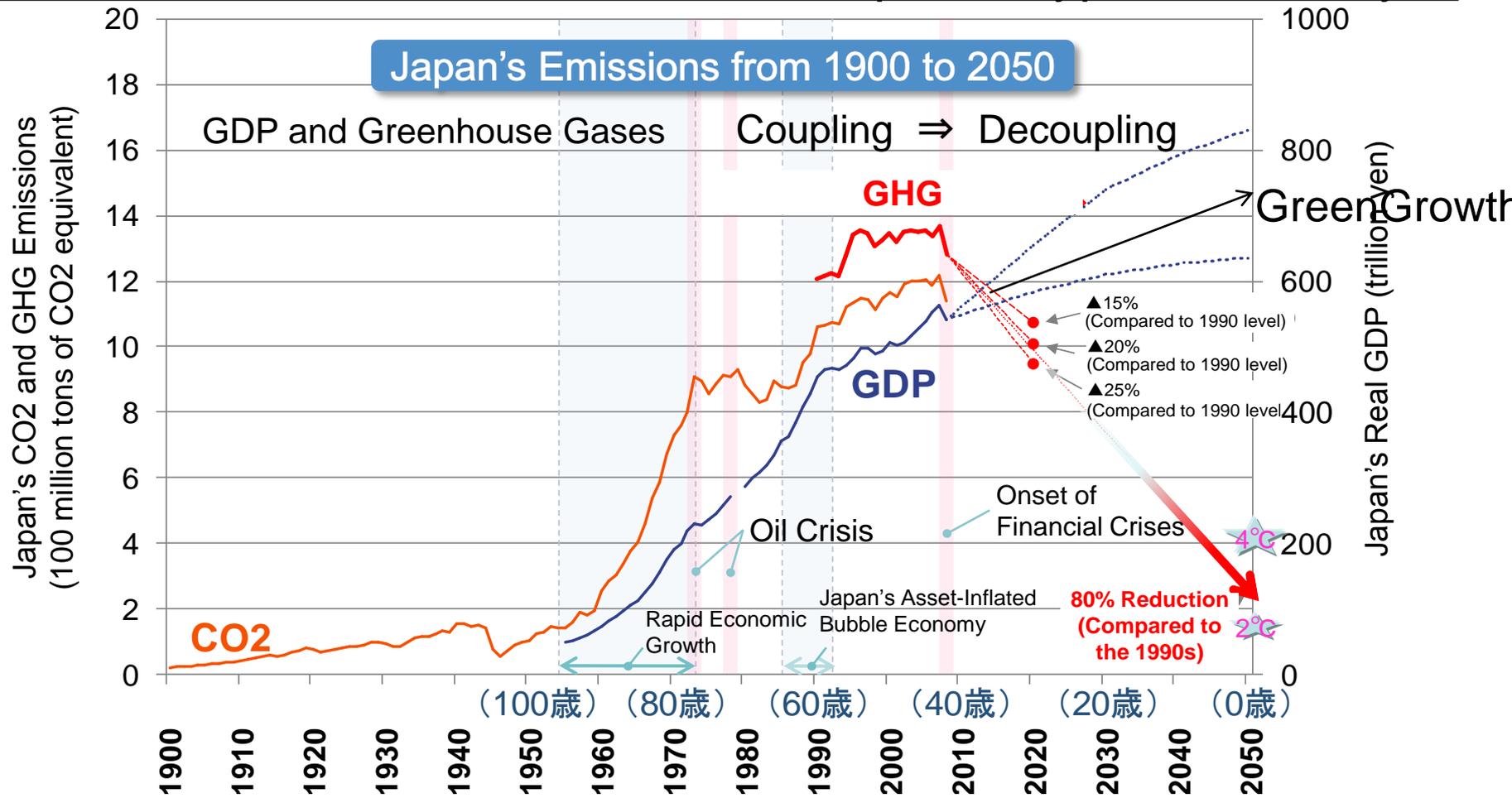


Frequent heavy rains

(出典)中央環境審議会 第104回地球環境部会(2012.2) 原澤委員資料

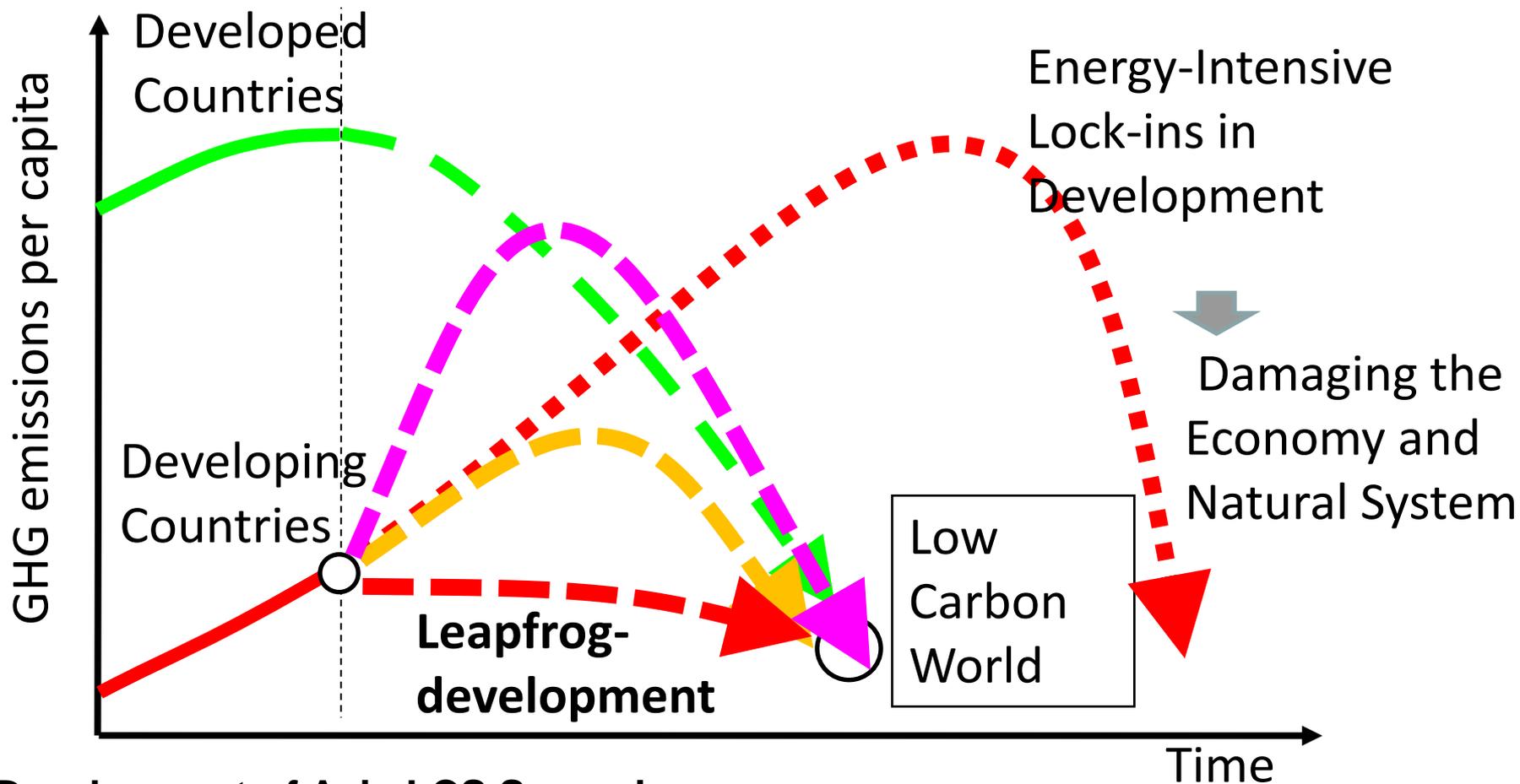
Japan struggling to emerge from an economy locked into hi-carbon emissions

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

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

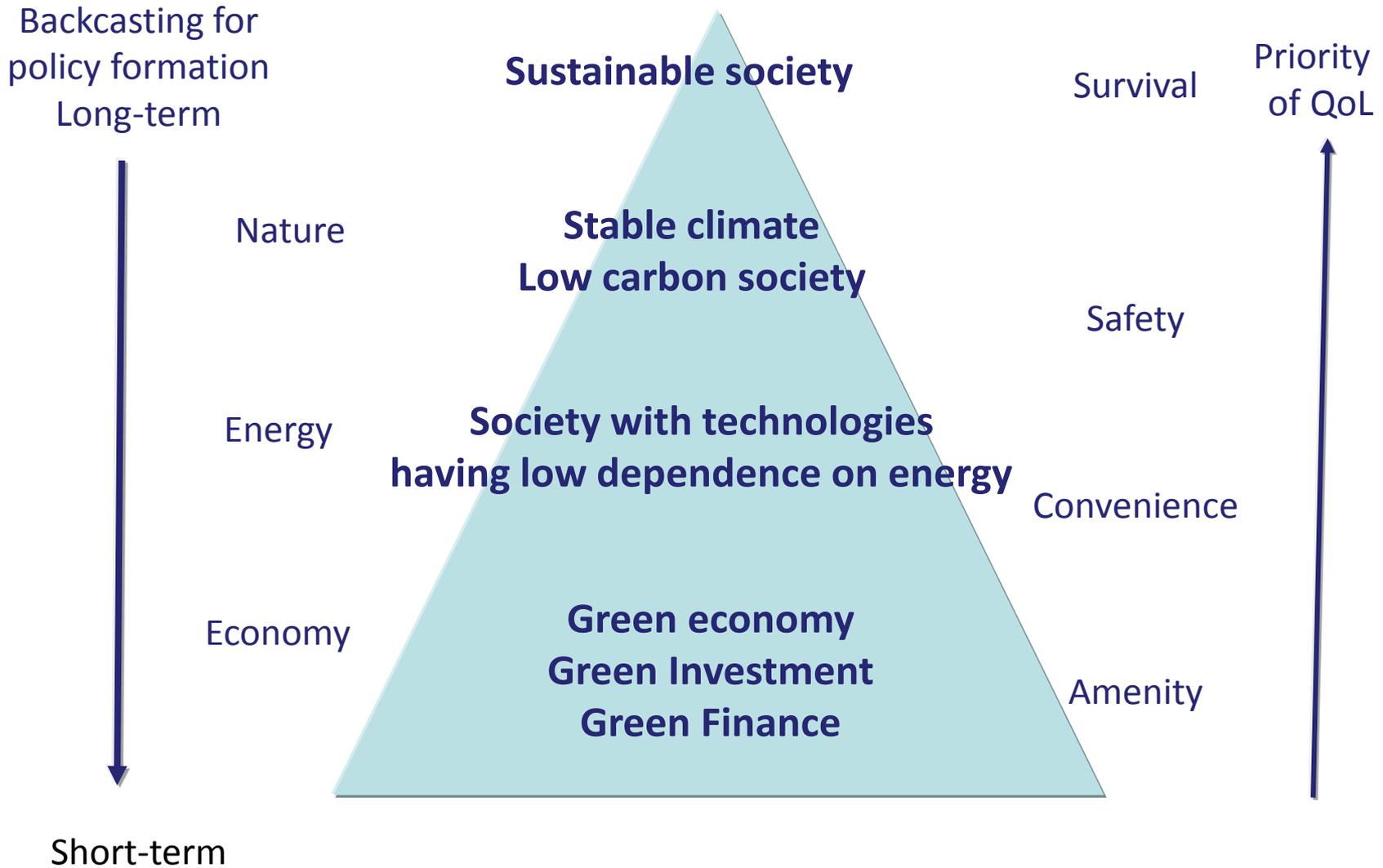


Policy Packages for Asia LCS

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

Prioritise policy targets

Stable climate > Energy > Economy



What research area/ topics should be strengthened making use of synergies of regional cooperation?

Ex.

- Inventory data of region specific items
- Energy demand side data
- Development of forestry and land-use simulation model
- Utilization of integrated assessment models for nationally/ regionally harmonized LC policy

- Economic evaluation: methodology applicable for evaluating low-carbon growth
- Low carbon city management
- Comparative study of effectiveness of LC policy and measures amongst countries in this region
- Reform of power system

- Transportation system: good practices
- Waste management in relation to LC policy
- Mobilizing local societies and people
- Asian traditional values and behavioral change

“Low Carbon Asia Research Network ”

Activities in 2012 / 活動計画

- **May 2012**: APN (Asia-Pacific Network for Global Change Research) newly established fund on “low-carbon initiative” (approx. US\$300,000/year) for regional-based joint research, capacity development, and networking activities.
- **9 July 2012**: Held a policy-makers’ panel in Johor Bahru, Malaysia to discuss future activities from policy-makers’ point of view
- **23 July 2012 (at ISAP, IGES)**: Will hold the LoCARNet kick-off meeting to discuss future activities, research needs, and organisational framework and management, as well as how to promote knowledge exchange and capacity building in an efficient manner, together with leading researchers in this region
- **24 July 2012 (at ISAP, IGES)**: Will organize a breakout session entitled “East Asia Knowledge Platform for Low Carbon Growth - Knowledge in Action for Policy and Investment”, and will briefly explain discussions at the LoCARNet kick-off meeting
- **18 September 2012 (in Oxford, UK)**: Will organize a session on “Regional co-operation: An Asian case study” at the LCS-RNet 4th Annual Meeting.
- **November (?) 2012**: LoCARNet First annual meeting in Bangkok, Thailand (dates and venue to be decided)
- → The results and recommendations of the first annual meeting should be reported to UNFCCC COP18, ASEAN+3, etc.
- **2013 and beyond**: LoCARNet will be expected to become an autonomous researchers’ network based on south-south regional cooperation.

Integrating Asian wisdom: East Asia Knowledge Platform for Low Carbon Growth
Thank you for your kind attention!



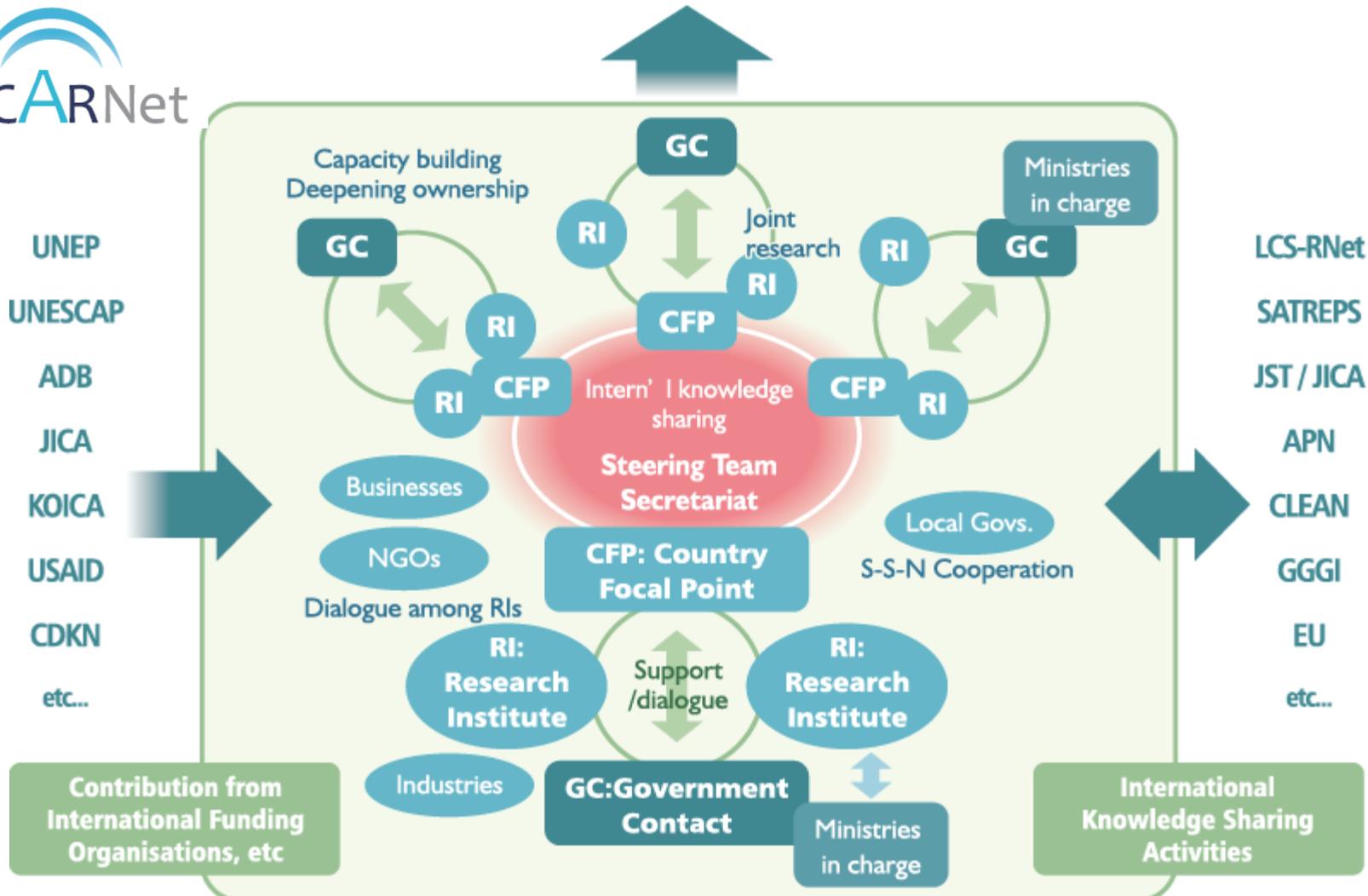
Save our common climate

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

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

低炭素政策策定に貢献する重層的で柔軟な研究者ネットワーク

Input to International Policy Arena (G8/G20 UNFCCC)



“Low Carbon Asia Research Network (LoCARNet)”

as a central core for providing knowledge

知識中核としての低炭素アジア研究ネットワークの進捗

Background/history:

- **2009-2011, Asia:**

IGES/NIES’s workshops to promote dialogue between policy-makers and researchers in Indonesia, Thailand, Cambodia, Vietnam and Malaysia ⇒ recognized growing importance of research society towards low-carbon growth in Asia

- **October 2011, Phnom Penh:**

Japan proposed “Low Carbon Asia Research Network” at ASEAN+3 EMM

- **April 2012, Tokyo:**

The launch of LoCARNet was declared by Japan’s Minister of the Environment, as one of the key element of the “East Asia Knowledge Platform for Low Carbon Growth” at the “East Asia Low Carbon Growth Partnership Dialogue”

- Organisation is in process now

Growing importance of actions towards low-carbon development in Asia

