

Low Carbon Asia Research Network (LoCARNet) in progress

November 2013

Warsaw

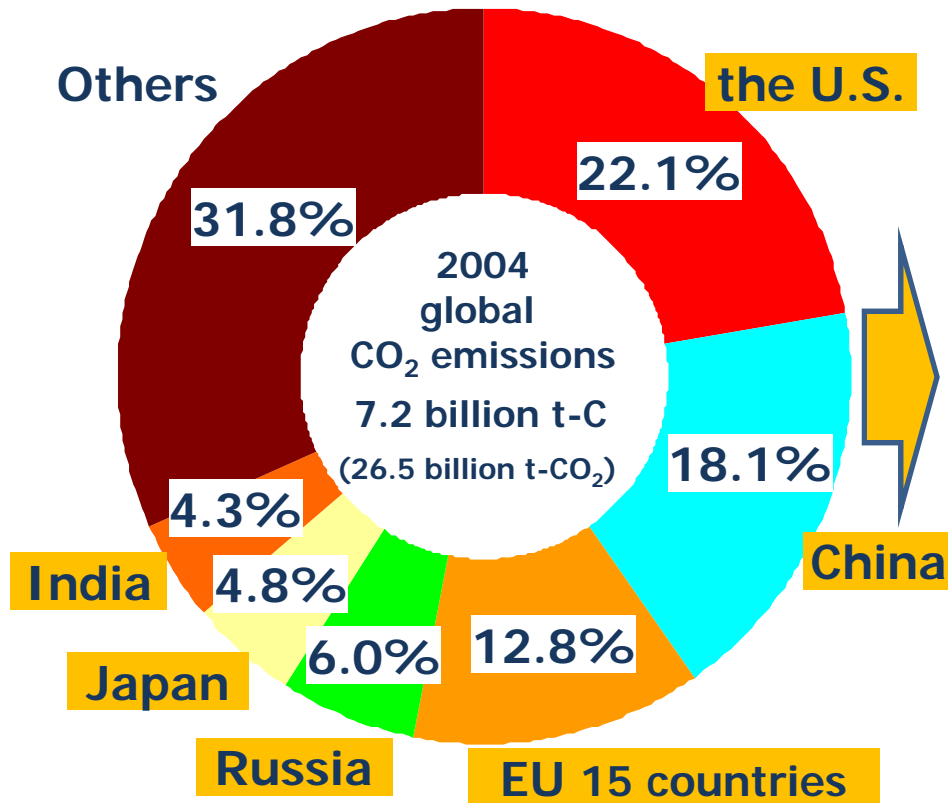
Shuzo NISHIOKA

Secretary-General, LoCARNet Secretariat

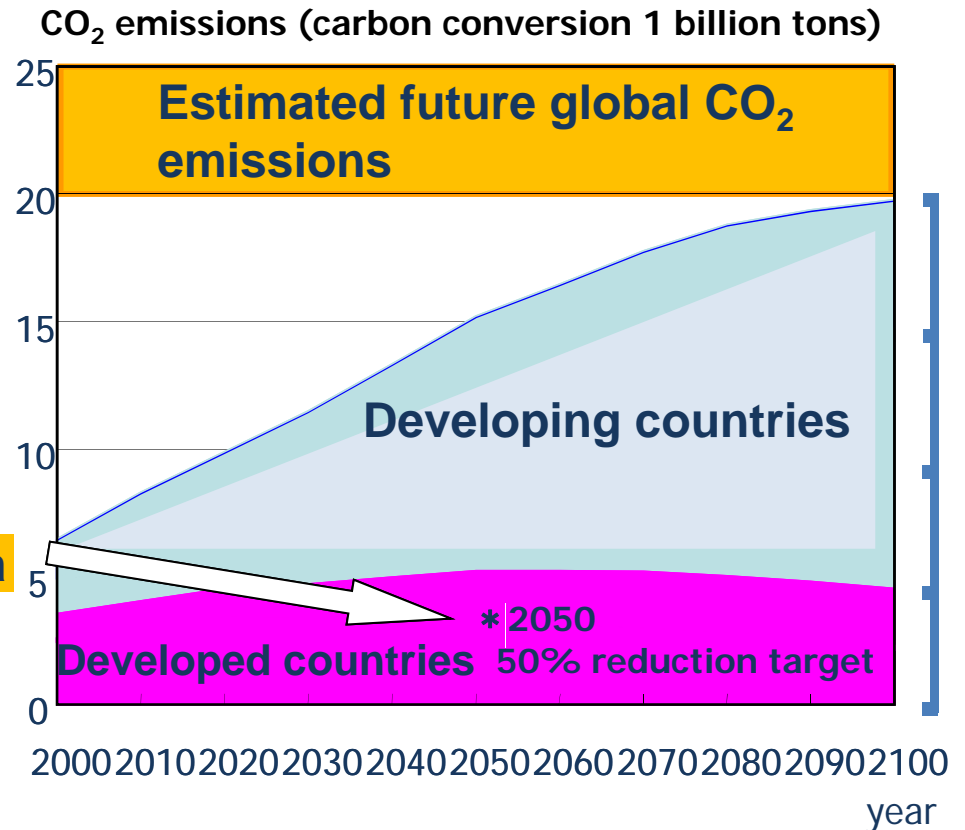
Institute for Global Environmental Strategies (IGES)

Cooperation with developing countries is key

- As significant worldwide reduction is essential

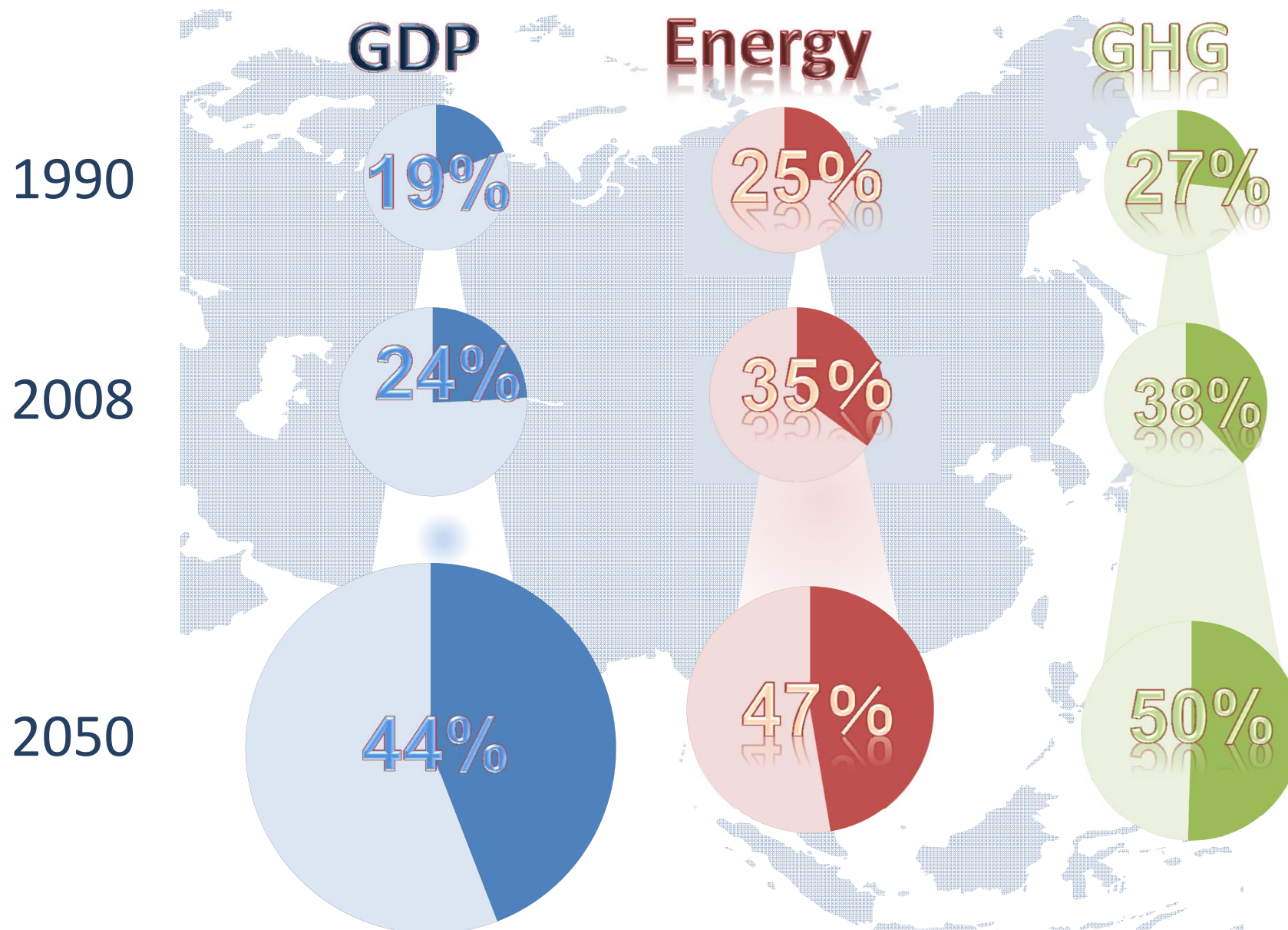


Made by the Ministry of the Environment, Japan based on Energy & Economics Statistics in Japan (2007 version)



Sources: Kainuma et al., 2002: Climate Policy Assessment, Springer, p.64.

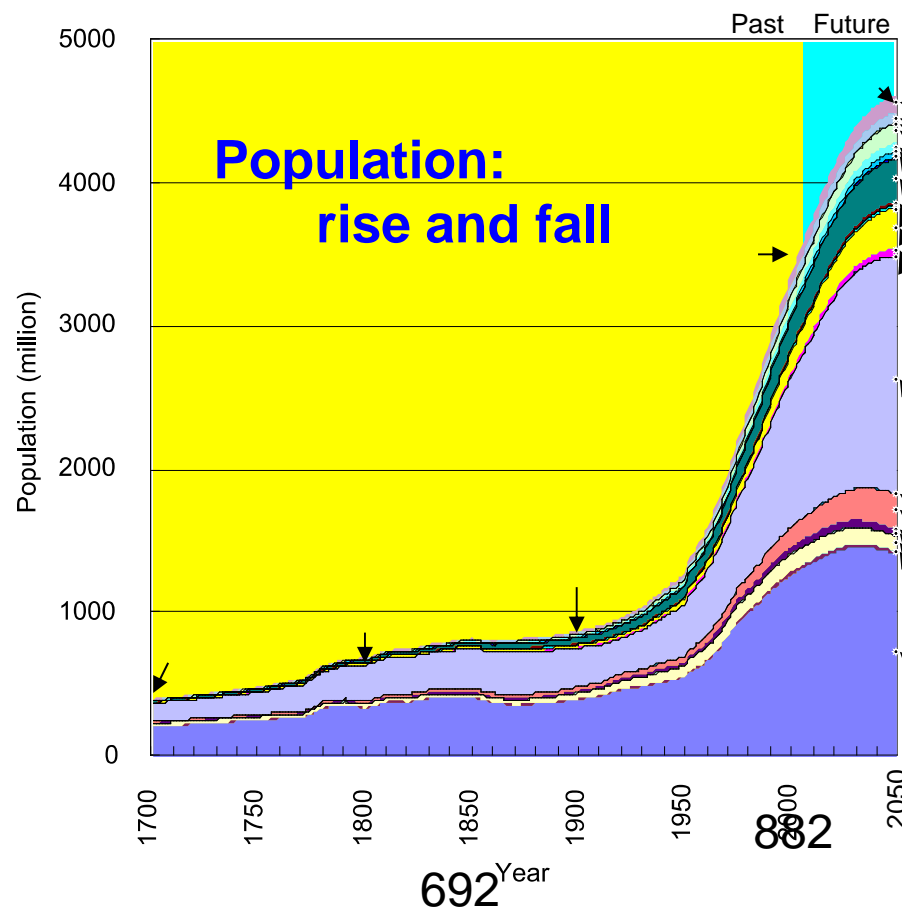
Growing importance of actions towards low-carbon development in Asia



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

Asia 40 years into the future

Population explosion will cease except in the South Asia region, while some countries' populations will begin to shrink



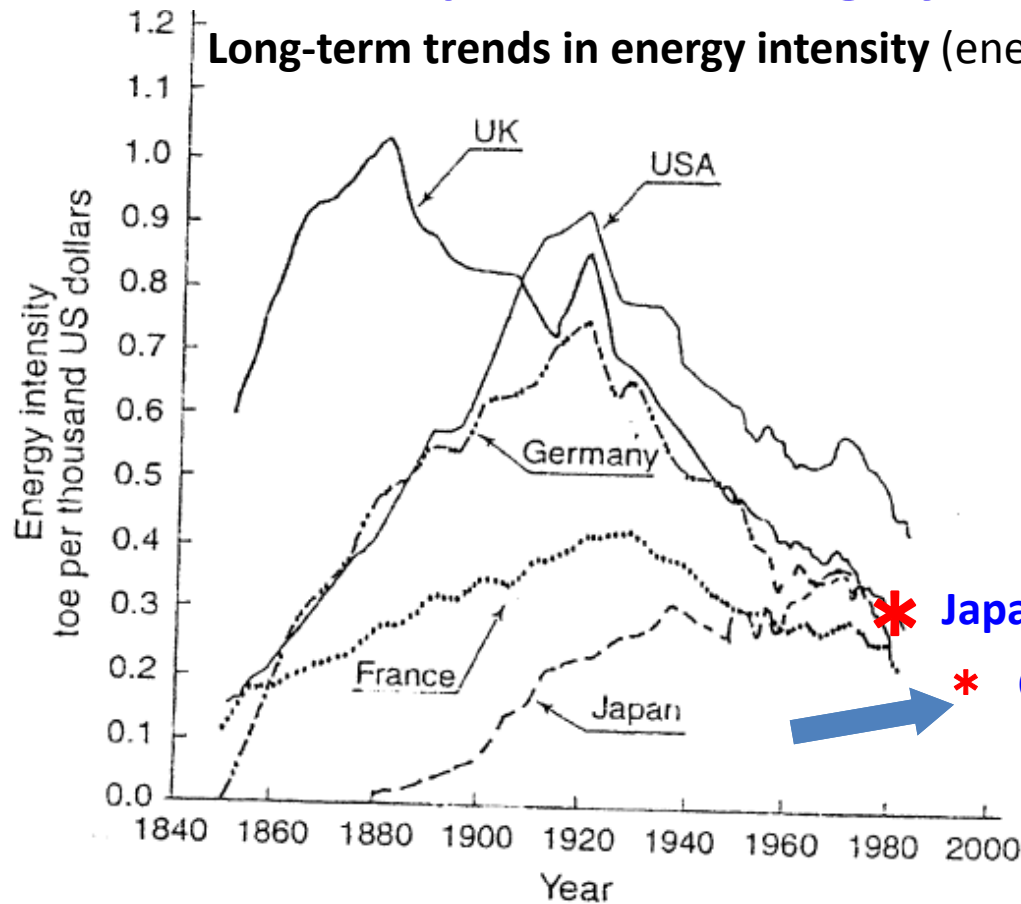
	2008	2050	ratio 2050/200	% in the region
VietNam	89,694	119,971	1.34	2.60
Thailand	64,732	67,376	1.04	1.46
Singapore	4,542	5,026	1.11	0.11
Philippines	91,332	140,466	1.54	3.04
Myanmar	49,640	58,709	1.18	1.27
Malaysia	27,476	39,631	1.44	0.86
Laos	6,068	9,290	1.53	0.20
Indonesia	237,002	296,885	1.25	6.42
Cambodia	14,957	25,114	1.68	0.54
Burunei	406	681	1.68	0.01
Sri Lanka	19,487	18,715	0.96	0.40
Pakistan	170,113	292,205	1.72	6.32
Nepal	29,325	51,891	1.77	1.12
Maldives	317	510	1.61	0.01
India	1,203,246	1,658,270	1.38	35.88
Bhutan	675	935	1.38	0.02
Bangladesh	163,970	254,084	1.55	5.50
S.Korea	48,538	42,327	0.87	0.92
Mongolia	2,680	3,388	1.26	0.07
Japan	127,868	102,511	0.80	2.22
N.Korea	23,941	24,666	1.03	0.53
China	1,343,933	1,408,846	1.05	30.48

(thousands)

Mitchell *International Historical Statistics* (2007)
and UN, *World population prospects* (2006)

Opportunities for Asia:

Freedom from past track of highly energy-dependent technologies



Possibility of Asian countries' Leapfrog leveraged by Climate Change

* Japan's leap-frog in Oil Crisis

* China/ASEAN ?

* India ?

*

- 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?

Asian Low Carbon Society Research Network: LoCARNet

Researchers community dedicating to scientific policy making
process towards Low Carbon World

Proposed at ASEAN + 3 2012

by Government of Japan

The 1st Meeting held in Bangkok, October 21-22

The 2nd Meeting to be held in Yokohama on July 23-24



Rizaldi

Bundit

Jiang

Ho Chin

Sirintornth

Mikiko

Hak MAO

Yutaka

Mohamad

SOES

LIMMEECHO KEJUN

SIONG

ep

Kainuma

Cambodia

MATSUZABIN SA'ELAI



国家发展和改革委员会能源研究所
Energy Research Institute National Development And Reform Commission



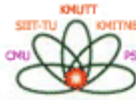
UTM
UNIVERSITI TEKNOLOGI MALAYSIA



環境省
Ministry of the Environment



국립환경과학원



JGSEE
The Joint Graduate School of Energy and Environment



LoCARNet - Activities and Uniqueness

- **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.
- **Regional Collaboration**: LoCARNet aims to increase in research capacity in the AP region through knowledge sharing and information exchange, in the scheme of regional cooperation.

Workshops and consultations in Asian countries

Indonesia



- Low Emission Development Scenarios (LEDs) of Energy Sector: Preliminary Result of Asia-Pacific Integrated Modeling (AIM) exercise (June 2012)
- Indonesia Workshop: Research Cooperation on “Development of Low-Carbon Strategies” (Feb. 2013)

Vietnam

Vietnam Workshop:
Low Carbon Society in
Vietnam
(April 2013)



Cambodia

Cambodia Workshop: A
Systematic and
Quantitative Design of Low
Carbon Development Plan
for Cambodia
(April 2012)



Thailand

- LoCARNet 1st Annual Mtg. (Oct. 2012)
- Development of Asia Low-Carbon Strategy and Roadmap 1st Kick off Meeting (Oct. 2012)



Malaysia

Int'l workshops in Iskandar, Malaysia



LoCARNet 1st Annual Meeting in Bangkok, Thailand



Country reports, Indonesia, Thailand, Malaysia (2010-2012)

Cambodia reports



LoCARNet reports



LoCARNet 1st Annual Meeting, October 2012, Bangkok
2nd Annual meeting, July 2013, Yokohama

Urgent research needs in Asia

The 1st annual meeting, 2012 Bangkok

- More precise **inventory** fit to country's situation as base of BUR/NAMA/MRV
- **Forestry /Soil/ Land use** change modeling for REDD policy
- **Consistent low carbon policy**: application of integrated assessment model
- Guidelines for low carbon **cities as good unit** of implementation
- Expansion of **LCS research** community and impact **to policy process**
- **Technology** : how to **share and deploy** to practical solutions
- **Traditional value** in Asia for leap-frogging

LoCARNet 2nd Annual Meeting in Yokohama, Japan

Low Carbon Asia Research Network
[LoCARNet]

Second Annual Meeting



Wednesday
24 July
2013

» 8:30-17:30

held concurrently with ISAP

Thursday
25 July
2013

» 8:30-18:30



**Drafting Synthesis
Report
(coming soon!)**

Key findings from the 2nd annual meeting of LoCARNet

- **Asian countries have the capacity and the potential to mitigate greenhouse gas emissions to achieve the global 2°C target**
- **Low carbon technology has implications beyond the technological domain.**
- **City and local level actions can make cities into pioneers leading to a low carbon Asia**
- **Asian leapfrogging still needs to be catalysed from various aspects**
- **A knowledge platform is an effective way to respond to urgent requests from policymakers**

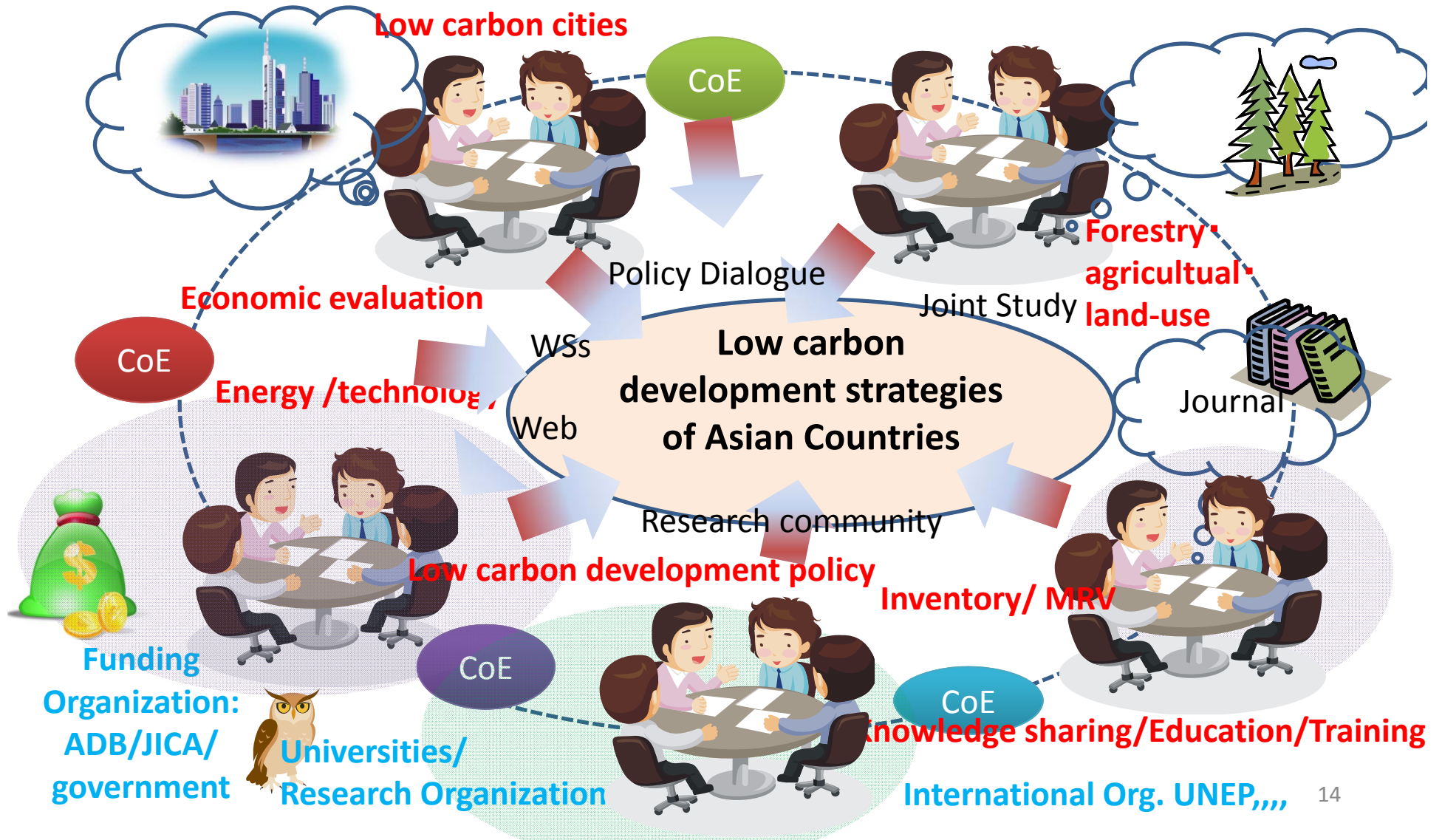
Questions and urgent research needs in Asia

The 2nd annual meeting, 2013 Yokohama

- How to effectively implement **capacity building** for developing countries?
- What are the **reduction potentials of Asian countries** to achieve two degree stabilization targets?
- What is the role of **cities** in achieving global Low Carbon Society?
- How can **research projects** effectively be funded and operated for low carbon future in Asian region?
- How can the quality, effectiveness and adoption of **green growth planning and implementation** at all Levels and in all regions be improved?
- What it takes to facilitate **low carbon technology** in Asia?
- How to realise the potential for emission reduction from the **forestry, agriculture and land-use sectors**?

Center for Low Carbon Asia Strategies (CLOCAS)

Alliance of Centers of Excellence for Low Carbon Development Strategy in Asia





Thank you very much for your attention!



LCS-RNet/LoCARNet Secretariat
<http://lcs-rnet.org/index.html>

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Asian Low Carbon Development Scenario Making and Capacity Building Activity Since 1991



15th AIM International Workshop on 20-22 February 2010



AIM Training Workshop on 27-31 October 2008



AIM Training Workshop on 16-20 October 2006



Asian Modeling Meeting at Tsukuba on 17-18 September 2009



14th AIM International Workshop on 14-15 February 2009



AIM Training Workshop on 2-14 August 2010



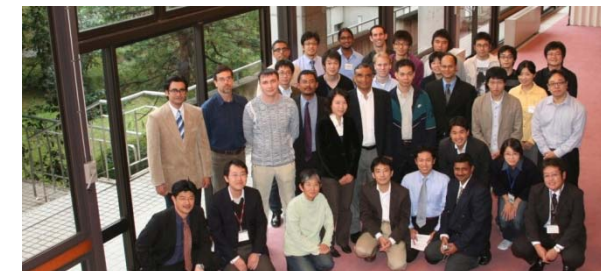
1st AIM International Workshop on 1-2 February, 1996



17th AIM International Workshop, 17-19, February 2012

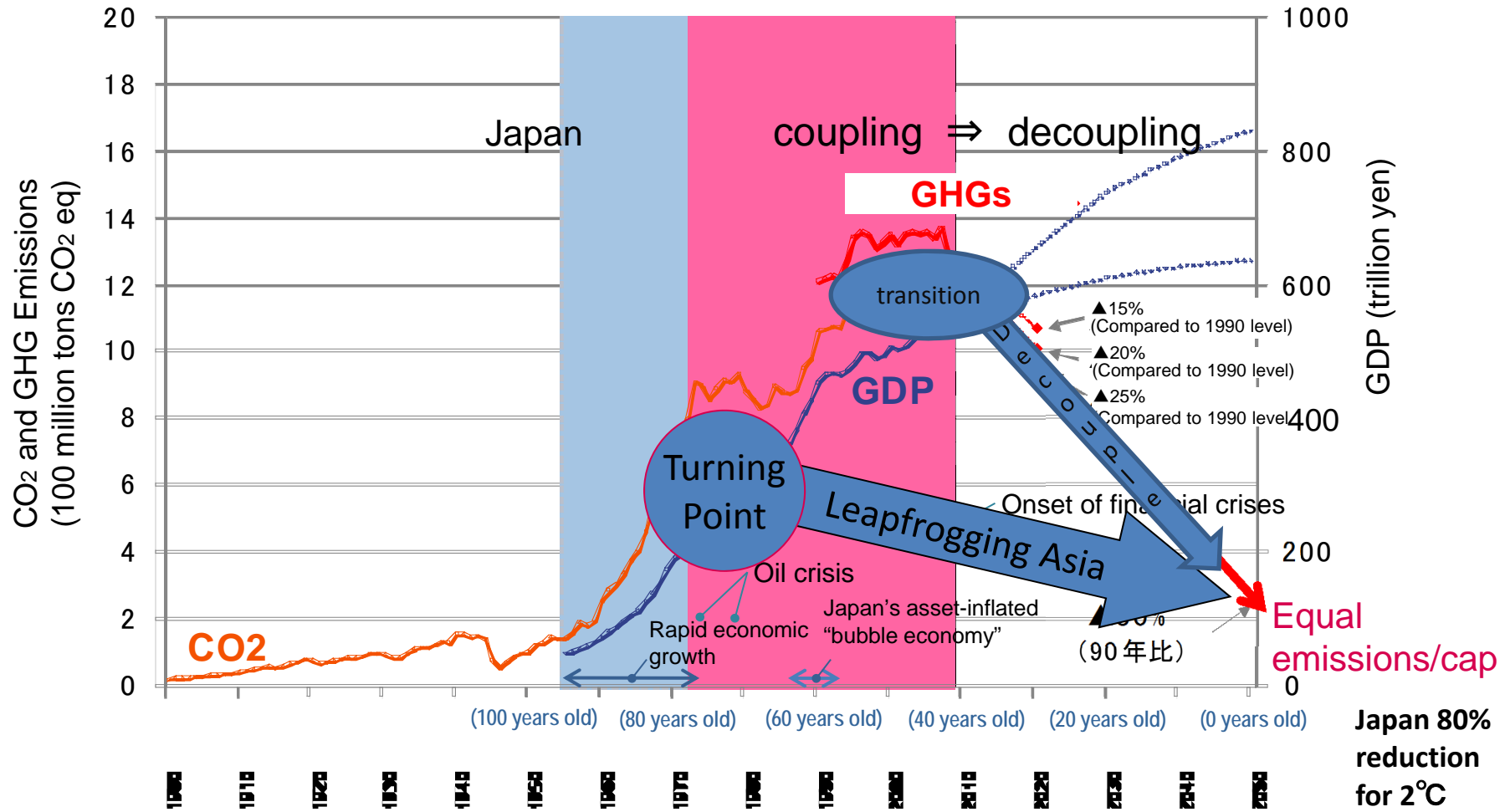


16th AIM International Workshop on 19-21 February 2011



AIM Training Workshop on 22-26 October 2007

New development paths for Japan and Asia towards low carbon world



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