

低炭素アジア研究ネットワーク:LoCARNet

アジアの知恵を低炭素発展に結集する

Integrating Asian Wisdom: Low Carbon Asia Research Network

アジア低炭素発展への道: Low Carbon Development in Asia Symposium

30 October 2012 Tokyo, Japan

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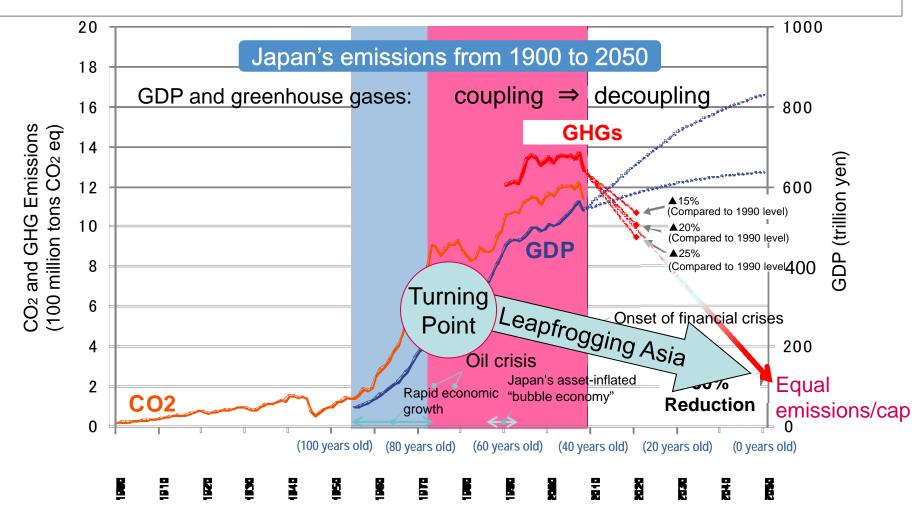


アジアの低炭素発展に向けた科学的政策形成と実施に貢献する 研究者及び関係者の開かれたネットワーク

An open network of research communities and stakeholders that facilitates the formation and implementation of science-based policies for low-carbon development in the Asian region

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

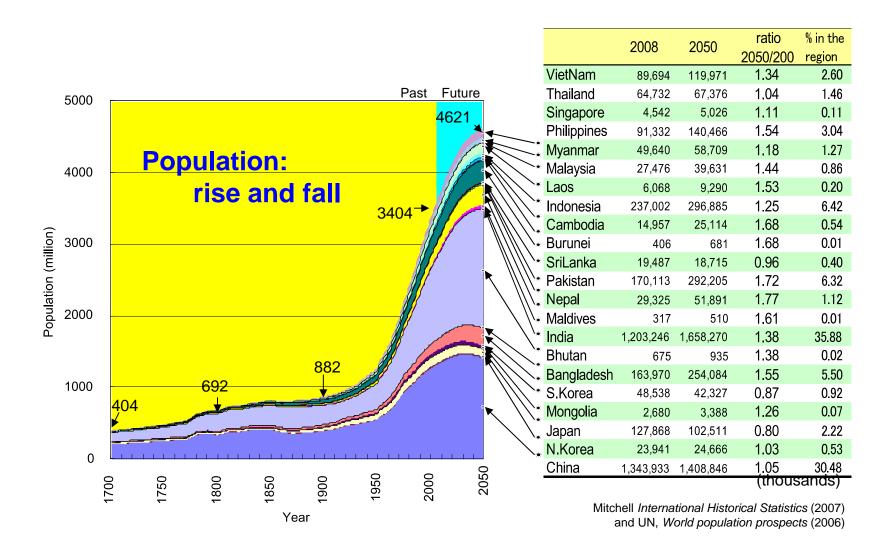
GHG emission reductions of 80% by 2050: An enormous transition towards an unexplored type of society



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

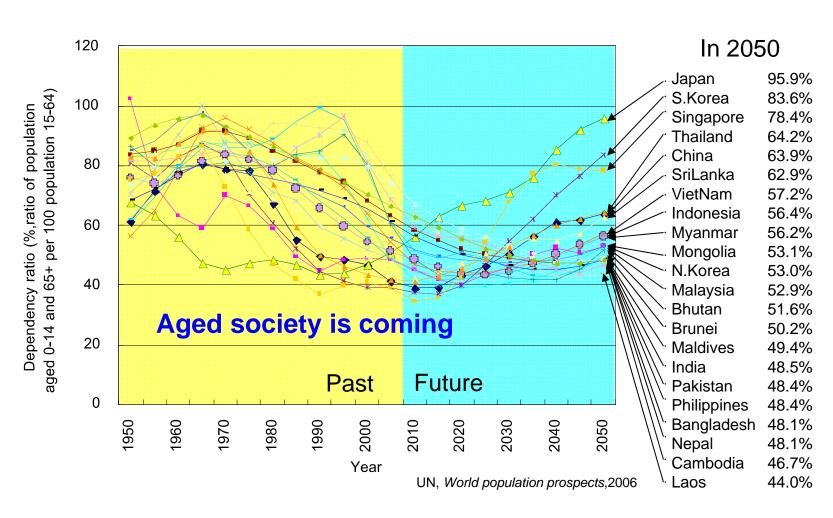
Asia 40 years into the future

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

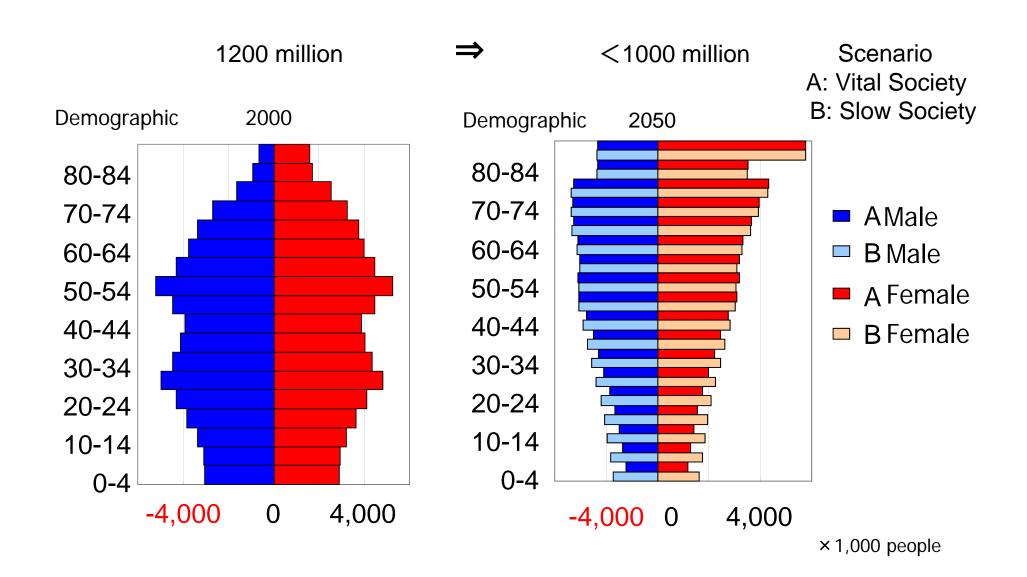


Asia 40 years into the future

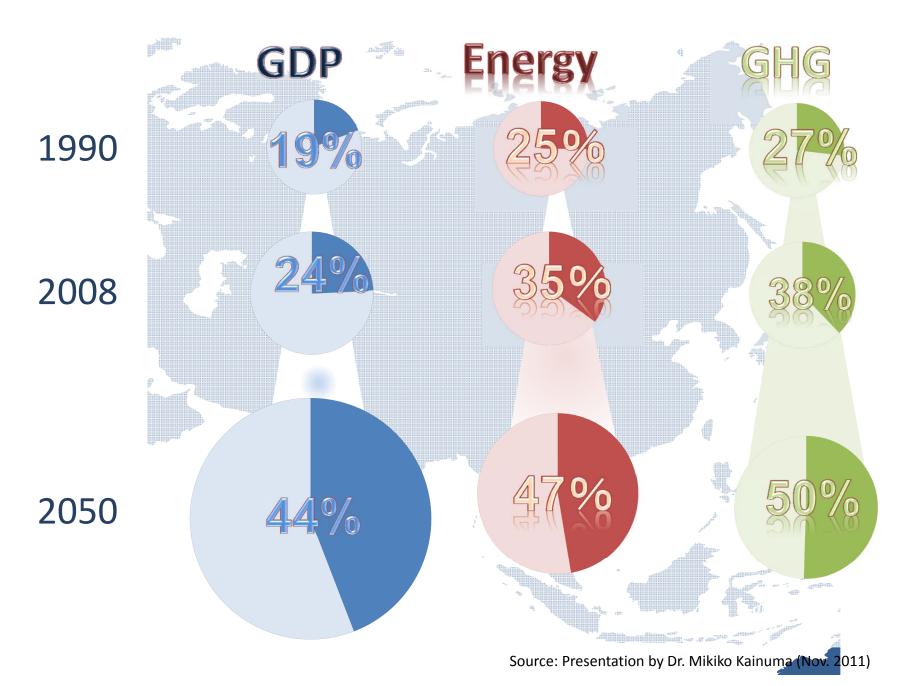
Dependency ratios of population will change drastically over the next forty years



Japan as the global front runner of aging societies

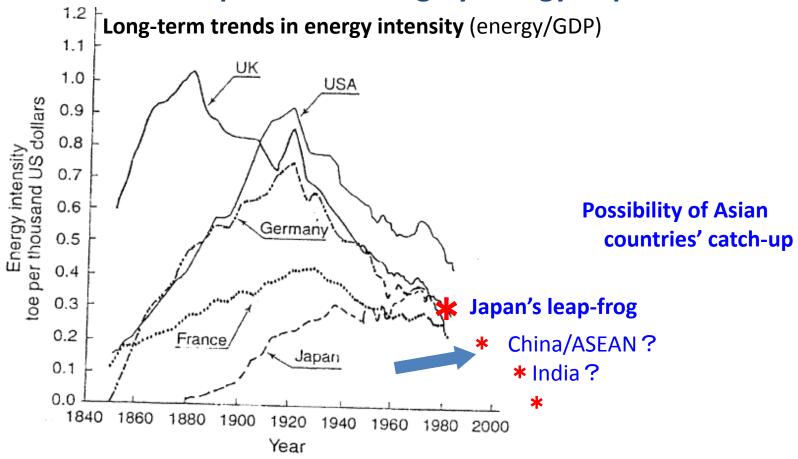


Growing importance of actions towards low-carbon development in Asia



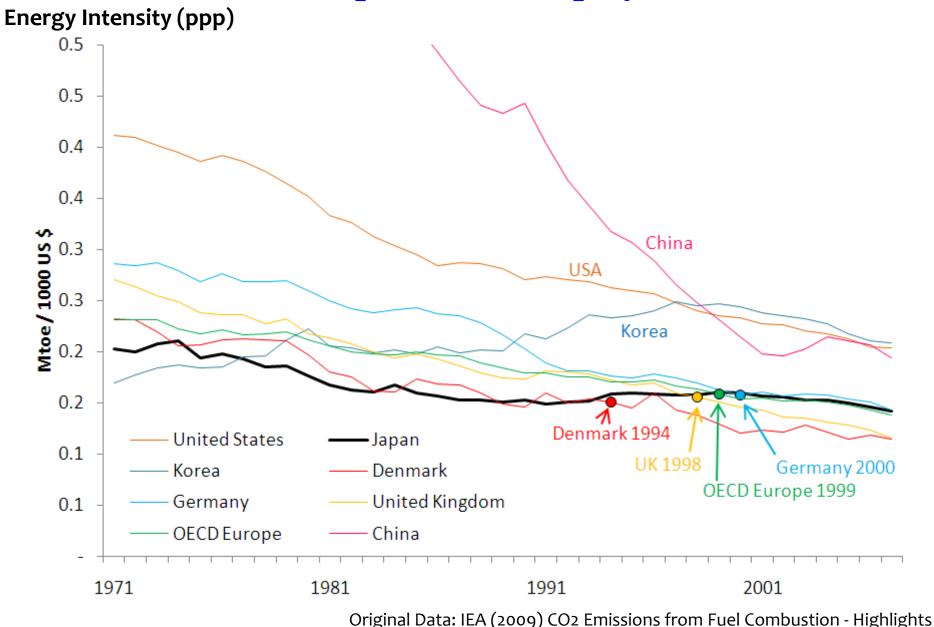
Opportunities for Asia:

Freedom from past track of highly energy-dependent technologies



- 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?

Japan delayed for low carbon technologies development and deployment?



Activities and Publications Series of policy-research dialogue workshops

Series of policy-research dialogue workshops on Asian Low Carbon Development



A Low Carbon Asia: From Malaysia to Asia Dialogues between Policy-Makers and Researchers: Towards Implementation 4-5 July 2011 Johore Bahr, Malaysia

Policy Dialogue:
Sustainable and Low-Carbon
Development in Indonesia and Asia
16-17 February 2010
Bogor, Indonesia

Cambodia workshop:
Scientific Approaches towards
Low Carbon Development in
Cambodia
10 January 2011
Phnom Penh, Cambodia

Dialogue:
Transition towards
Low Carbon Societies
in Thailand and Asia
17-18 November 2010
Bangkok, Thailand

Stakeholder Dialogue: Low Carbon Development and Research Need 18-19 April 2011 Hanoi, Vietnum

Series of LCS-RNet G8 Annual Meetings

1st Annual Meeting 12-13 October 2009 Bologna, Italy

2nd Annual Meeting Sept. 2010, Berlin, Germany

3rd Annual Meeting Oct. 2011, Paris, France

アジア低炭素発展研究ネットワークの背景 LocARNet Background of Low Carbon Asia Research Network

Aims to formulate and better enable the implementation of science-based policies for low-carbon development in Asia to facilitate the realisation of a low-carbon and sustainable society.

- 2006 年からの国立環境研究所・京都大学を中心とした アジア低炭素社会研究と共同で、地球環境戦略研究機 関はアジア各国で研究者と政策担当者との対話ワーク ショップを5回にわたって開催してきたが、その中で科学 的政策決定には研究者の参画が強められねばならない ことが共通認識となった。
- In collaboration with NIES/Kyoto Univ's Low Carbon Asia research project, IGES hosted several workshops in Asian countries, and the growing importance of role of regional research community was strongly recognised.
- この認識の下に2011年10月、プノンペンでのASEAN +3環境大臣会合で、LoCARNet 構想が日本から提案 された。
 - Based on this recognition, Japanese Government proposed the establishment of **LoCARNet** at **ASEAN+3 EMM** held in October 2011 in Pnom Penh.
- 2012年4月日本国政府が開催した東アジア低炭素成長パートナーシップ会合で提案した多層な関係者が参加する「東アジア低炭素成長知識プラットフォーム」の一要素としてLoCARNetが環境大臣によって発表された。 At the "East Asia Low Carbon Growth Partnership Dialogue" on 15 April 2012, it was agreed to work towards establishing the "East Asia Knowledge Platform for Low Carbon Growth", as an open, multilayered, flexible all stakeholders' network for sharing knowledge towards low-carbon growth in Asia. LoCARNet was recognized as one elements of it.

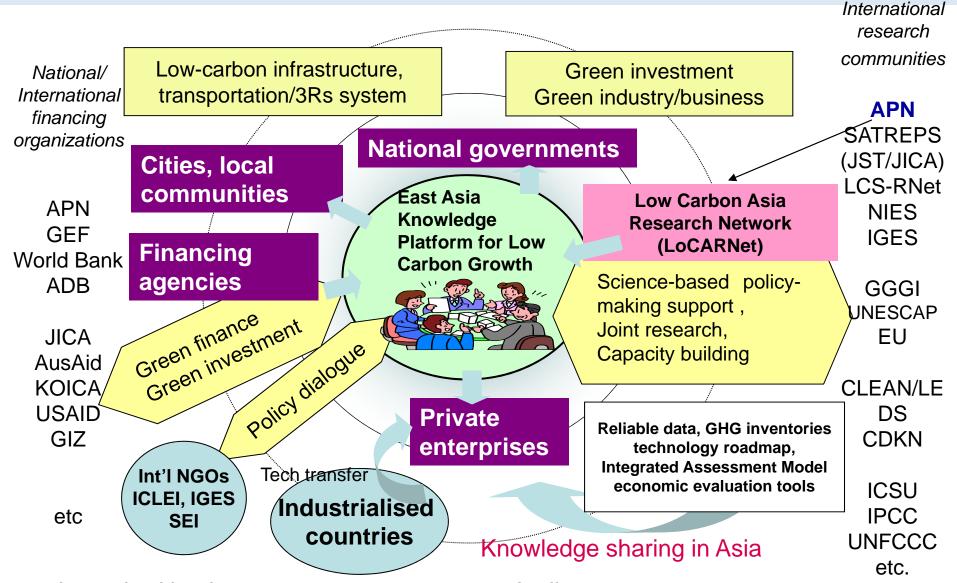
- 2012年7月横浜で、アジアの研究リーダーとIPCC, ADB, UNEPなど国際機関の代表がLoCARNetの運営 について準備会合を開催した。
 - In September 2012 in Yokohama, Asian leading researchers with representatives of IPCC, ADB, UNEP, APN discussed on plan of activities of LoCARNet
- その結果は、2012年9月バンコクでのASEAN+3環境大臣会合に報告された。
 - In September 2012 at ASEAN +3EMM in Bangkok, those activities were reported.
- 2012年10月 16-17日、LoCARNet 第1回年次会合が バンコクで開催され、14ヶ国124人の研究者・政策担 当者・国際機関関係者が参加し、研究の最先端を論議 し、今後の活動を検討した。次回会合は2013年7月横 で開催の予定

On October 16-17 in Bangkok, **LoCARNet First Annual Meeting** discussed the forefront of 7 major research areas with participation of 124 academic members and policy makers from 14countries'

Next meeting is tentatively planed to be held in July at Yokohama



LoCARNet:低炭素発展知識交流プラットフォームの知恵袋 for the East Asia Knowledge Platform for Low-Carbon Growth*



* Launched by Japanese government on 15 April 2012 at East Asia Low Carbon Growth Partnership Dialogue



低炭素化をグリーン経済の駆動力に

長期目標

中期の転換

短期の行動

持続可能な社会>安定な気候 >エネルギーデカップリング > グリーン経済

政策形成のための バックキャステイング

長期:持続可能な社会

生存

生活質(QoL)の優先度

自然

安定な気候 低炭素社会

安全

エネルギー



中期:エネルギー・GHGと 経済のデカプリング

短期:グリーン経済への転換

グリーン投資・グリーン資金

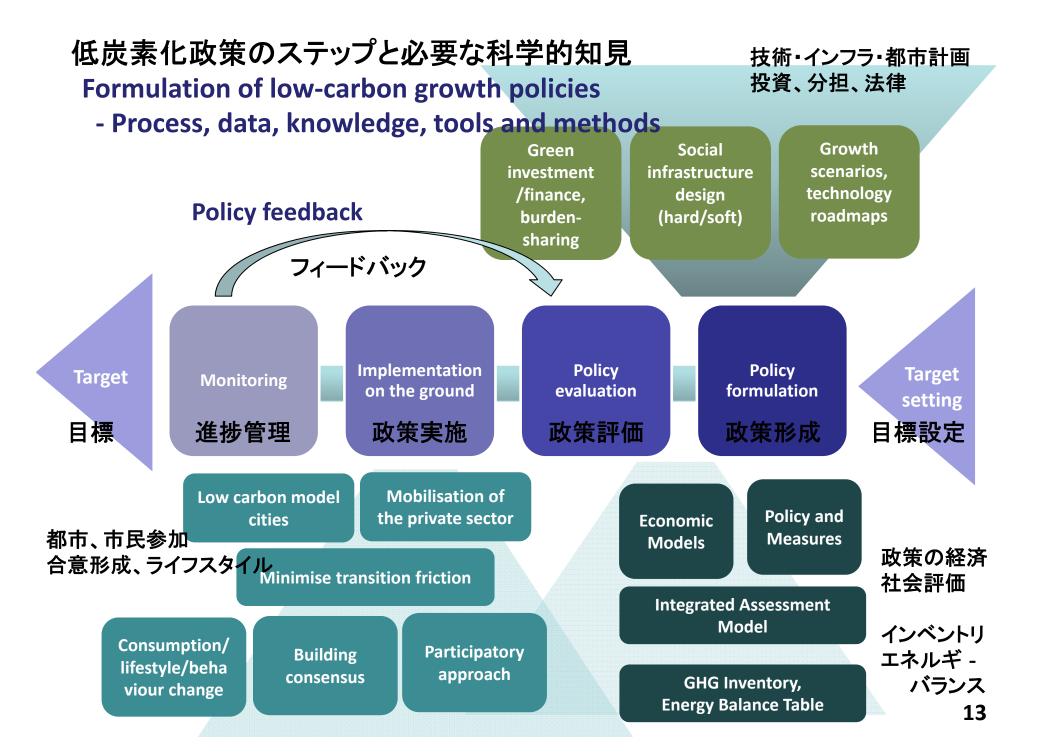
living together through compact city

135~163 兆円 (2011-2030)

利便

快滴

経済



第一回LoCARNet年次会合で取り上げられた緊急性のある研究課題 Urgent research needs focused at 1st annual meeting of LoCARNet

• 政策決定に置ける統合モデルの利用

Policy Making Process and Use of Integrated Assessment Model

土地利用と森林政策Land Use and Forestry

温室効果ガス排出推定の方法 GHG Inventory

アジアにおける政策を可能にする技術
 Technology needs & enabling policies in Asia

低炭素都市 Low Carbon City

地域固有の習慣・選択・イニシャティブ
 Local Level Practices, Local Decisions and Local Initiatives

低炭素グリーン成長に向けた制度構築
 Institutionalisation of Low-Carbon Green Growth

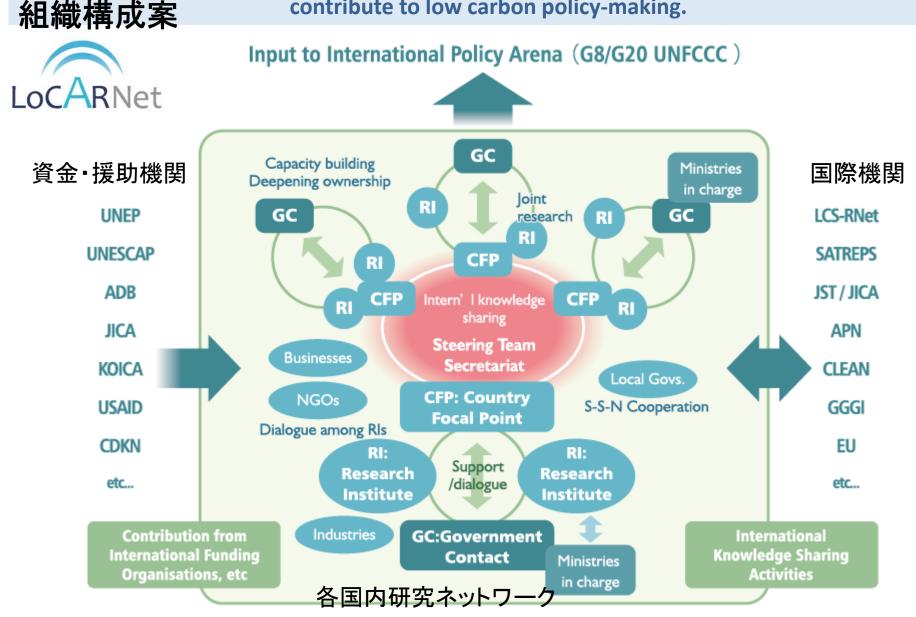


活動計画: Planed activities of LoCARNet

活動目的 Objective	方法: Vehicle/facilitation	活動主体:Participation
研究成果の向上 Enhancing research output	 Scientific information exchange through WS, newsletter, periodical journal, website, mutual communication, 	Mainly research community,
研究能力の向上 Strengthen research capacity	Training WSInternshipOn-the –Job training by joining practical project	Research community, government, funding agency
重要研究域の同定 Identifying key research area	WS, Dialogues,	Researcher/ Policy maker
研究資金Funding to research work	Match- making of research fund	Researchers, Funding organization
政策対話Promotion of science – policy integration	WS, dialogue	Researcher/ Policy maker
日常的知識交流 Routine information exchange	News Letters, Home page	Joint work of all members and Secretariat
実務者の能力開発 Capacity Building of Practitioners	Training course	Collaboration of government and research community
科学的知識の普及 Dissemination of Scientific knowledge	 Publishing journal Webinar Mail magazine International meetings; IPCC, UNFCCC, ASEAN meeting, Academic meetings,,,, 	Researcher/ all members Secretariat Researchers
ネットワークの管理Management / Scheduling/ Operation of LoCARnet	Decision makinginformation center & distribution	Steering Team & Secretariat

Example :Framework of "Low Carbon Asia Research Network (LoCARNet)"

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



すでにアジアでは低炭素発展に向けて多くの国が官民挙げて取り組んでいる。 Already exists many knowledge sharing mechanisms in Asia International/Regional:

- •ADB: RDTA: Strengthening Planning Capacity for Low Carbon Growth in Developing Asia: 2011-2013
- •World Bank: Low Emission Development Policy Implementation:
- •EU ASEM: ASEM Green Growth Forum: 3-4 Oct. 2011 Hanoi
- •APN: Asia-Pacific Network for Global Change Research: 1997-
- •USAid under Low Emission Development Strategies: LEAD 2012-
- •GGGI: Green Growth Initiatives:

Japan:

- Asia GHG inventory workshop: 2002-
- •Training WS of Integrated Assessment Model for CC policy: 1996-
- •JICA/JST SATREPS Program (Malaysia): 2011-
- •Asia Low Carbon Society Research: 2009-2013
- •International Research Network for Low Carbon Societies (LCS-RNet): 2008-(Held 5 WSs in 2010-21 in the region)
- •East Asia Low Carbon Development partnership Dialogue 2012.4-ほかにも多くの同様な活動が、政府・産業・資金機関のもとで行われている。 Other than the above, there are lots of similar mechanisms operated by IOs / other countries, etc.

第一回LoCARNet 会合(Bangkok)での認識 Key findings from the 1st LoCARNet annual meeting

- 気候安定化へのアジアの役目は大きい
 Asia's potential role in climate stabilization
- アジアに共通のアプローチと方法論があるが、解決はそれぞれに Common approach and method, but differential solutions
- 社会と政策に応える研究
 Stakeholder driven policy research
- 地方や部門スケールでの取り組みが有効Managing countermeasures at local and sector scales
- 低炭素化の取り組みは、まず技術と能力開発、だけどそれだけでは足りない Technology and capacity development and beyond for low carbon initiatives
- 多くの関係者や地域での協力でコベネをひきだす
 Multi-stakeholders and regional cooperation to emphasise co-benefits.
- LoCARNet: 研究コミュニティの挑戦
 LoCARNet: Challenge of research community



LoCARNet:特色と活動 Uniqueness and activities

アジア地域において科学的低炭素発展政策形成と実施に深く先駆的に寄与する研究コミュニティ及び関係者による開かれたネットワーク

An open network of research communities and stakeholders that facilitates the formation and implementation of science based policies for low carbon development in the Asian region.

科学者同士・科学者と政策担当者との密な対話 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.

それぞれの国に根づいた科学と能力の構築 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.

地域における自立的協力: Regional 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 regional not only north-south cooperation, but also south-south regional cooperation.

