# Institute for Global Environmental Strategies



## Takashi Otsuka







#### **About IGES**

- International Research Institute which conducts practical and innovative research for realizing sustainable development in the Asia and the Pacific.
- Established in 1998. Charter signed in Kyoto in 1997 in the occasion of COP3.
- Designed to create useful impacts on the four-year basis (phase).
- Researchers from diverse countries other than Japan (about 1/3 of staff : non-Japanese).





## **Global Network**



#### **Signatories of the Charter of Establishment of IGES**

- Administrative Organisations (16)
- International Organisations (6)
- Research and Academic Institutions (26)



# **Mission and Vision**

- To conduct strategic research "(towards the realisation of a sustainable Asia Pacific)
- To redefine the values and value systems of our present societies that have resulted in the global environmental crisis, in order to create new ways of conducting activities and a new paradigm for civilization, and to build new social and economic systems based on the principles of the new paradigm".
- To this end, IGES aims to act as a change agent, promoting the global transition towards a sustainable society.



# **Modes of Operation**

#### (i) Synthesis Research

 to contribute to determining framework for international agenda-setting and debate.

#### (ii) Problem-driven and Solution-oriented Policy Research

 to contribute to tangible knowledge and wisdom for the transition to sustainable.

#### (iii) Networking and Strategic Operation

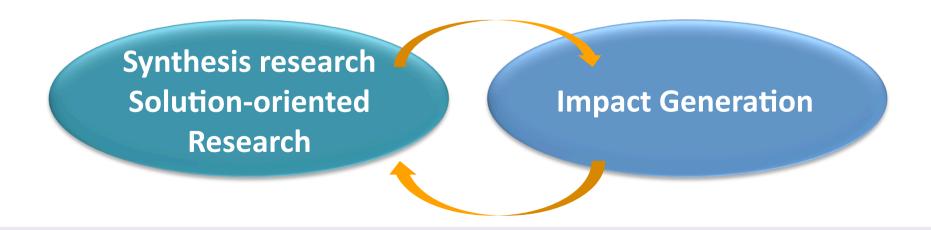
challenge for impact generation.

\* trans-science approach based on collaboration among stakeholders



# **Research and Impact Generation**

- Two-way and continuous process of mutual influences.
- Strategic research creates meaningful impacts into international/regional/national/local/(community) policy processes.
- International policy processes generate new research agendas.





# Research Focus Areas (FY2013-FY2017) (Provisional)

#### 6th Phase Research Structure

Natural Environment Sustainable Climate and Resources and Consumption **Ecosystem** Energy and Production Services Economic **Business and** Green Growth and Green Economy **Environment** Social **Integrated Policies for** Sustainable Sustainable Societies Cities



# **Creating, harnessing and disseminating knowledge for a sustainable future in Asia**

- stretching-out low-carbon development in Asia
- making sustainable consumption and production a reality in developing Asia
- maintaining and enhancing the resilience of the natural resources and ecosystem services that support local livelihoods in Asian countries
- greening economy and business for human well-being, including the creation of green employment.
- empowering people for the transition to sustainability
- providing practical knowledge and measures for cities facing sustainability challenges



# **Impact on Policy Formulation**

IGES is actively involved in major policy processes such as UNFCCC-COP, CBD-COP, G8/G20, TEMM, EAS-EMM directly or through specific initiatives:

Asia Environmental Compliance and Enforcement Network (AECEN) / Asia Pacific Adaptation Network (APAN) / Asia-Pacific Forum for Environment and Development (APFED) / Asia-Europe Environment Forum (ENVForum) / Regional 3R Forum in Asia / International Research Network for Low Carbon Societies (LCS-RNet) / Low Carbon Asia Research Network (LoCARNet: ) / Asia-Pacific Co-benefit Partnership / Water Environment Partnership in Asia (WEPA) / Asia-Pacific Water Forum Regional Water Knowledge Hub Network (APWF RWKH) / Sustainable Development Planning Network for Asia-Pacific (SDplanNet-Asia&Pacific) / Clean Asia Initiative (CAI) / Asian

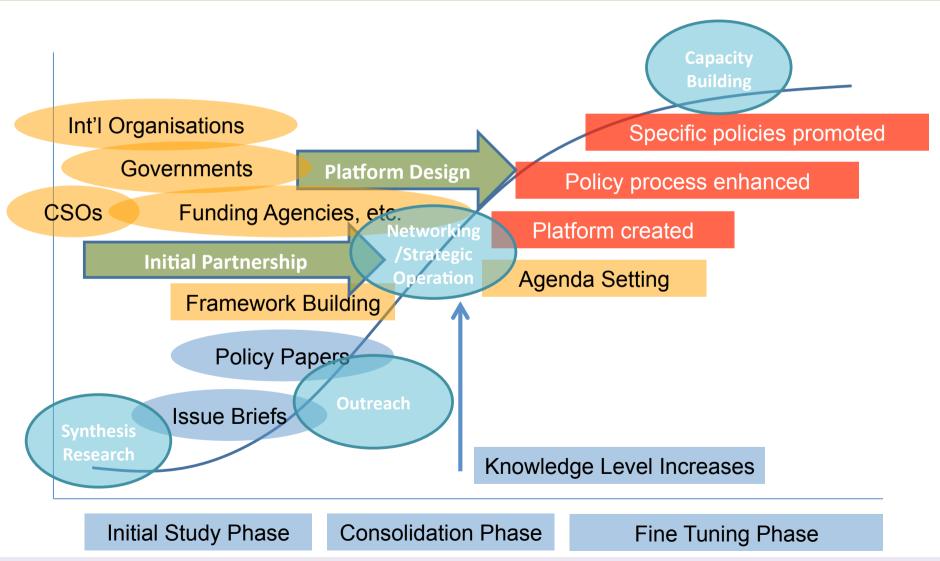
City Network for Environmental Improvement / Indonesia Climate Change Mogram Loan (ICCPL), etc.

# Contribute to Policy Formulatio Climate Change Conference

through information dissemination and policy recommendations based on research outcomes



# Ways of Working / Strategies (1)



### **LoCARNet: 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.

- LCS-RNet Secretariat has been conducting workshops in 4 Asian countries with NIES/AIM team.
   During the course of these workshops, the growing importance of low-carbon growth in Asia was strongly recognised.
- Japan/LCS-RNet Secretariat
   proposed the establishment of a
   network called the "Low Carbon
   Asia Research Network
   (LoCARNet)" at ASEAN+3 EMM
   held in October 2011 in
   Cambodia.
- 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, multi-layered, flexible all stakehoulders' network for sharing knowledge towards low-carbon growth in Asia.
- Locarnet was declared its launch at the side-event of the partnership dialogue. Locarnet will take part in the knowledge platform as a central core for providing knowledge.

#### **LoCARNet: Low Carbon Asia Research Network**

An open network of researchers, research organisations, as well as likeminded relevant stakeholders that facilitates the formulation and implementation of science-based policies for low-carbon development in Asia

Lessons learnt from activities and outcomes from dialogues between Researchers and Policy-makers in Asia











Synthesis Reports: http://lcs-rnet.org/publications/index.html















#### $m{2012}$ October in Thailand (LoCARNet $m{1}^{ ext{st}}$ Annual Meeting)

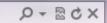
Seven priority topics were discussed: "policy-making processes and use of integrated assessment models"; "land use and forestry"; "GHG inventories as bases"; "low-carbon cities"; "local level practices/ decisions / initiatives"; "institutionalisation of low-carbon green growth"; and "technology for leapfrogging".



# **Characteristics and Uniqueness of the LoCARNet**

- 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 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.











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The Asia Pacific Adaptation Network (APAN) was established in October 2009 as part of the Global Climate Adaptation Network (GAN). It aims at building the climate resilience of vulnerable human system, ecosystem, and economies through the mobilizations of knowledge and technologies to support adaptation capacity building, policy-setting, planning and practices. APAN is the first network under the GAN supported by the UNEP, IGES, AIT-UNEP RRCAP, ADB, SIDA, and APN.



































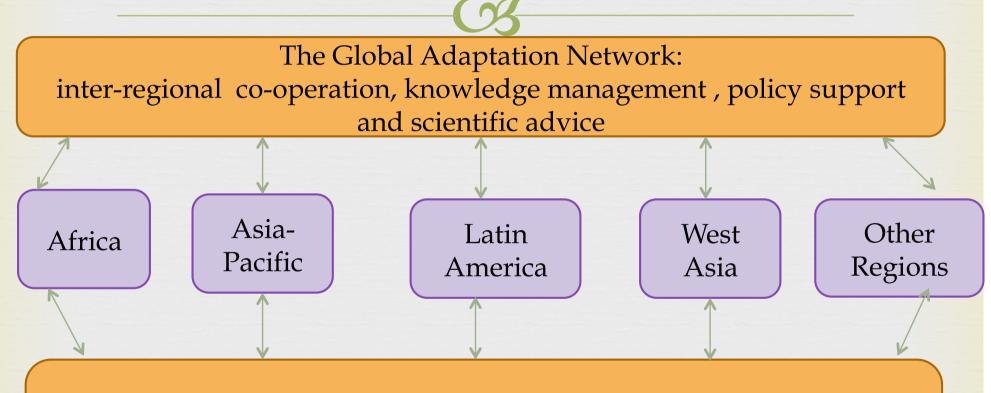
# Overall goal of APAN

Help build climate resilience of vulnerable human systems, ecosystems and economies through the mobilization of knowledge and technologies to support adaptation capacity building, policy-setting, planning and practices.

IGES plays a leading role of APAN operations.



# UNEP's Global Climate Change Adaptation Network (GAN)



Regional Adaptation Networks: Institutional capacity building, knowledge mobilization and, demonstration and dissemination of best adaptation practices

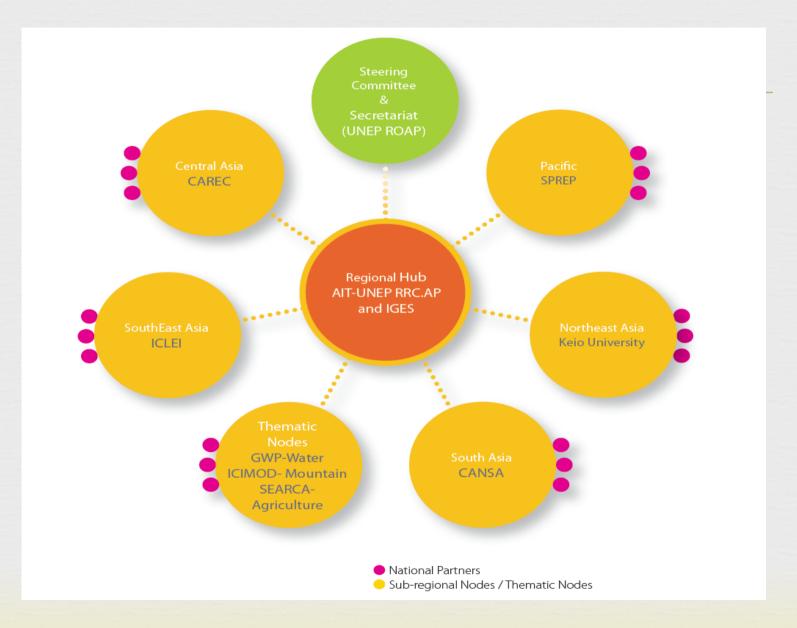
# **Sub regional Nodes**

Sub Regions		
Southeast Asia	ICLEI- Local Governments for Sustainability (ICLEI)	
Central Asia	Central Asian Regional Environmental Centre (CAREC)	
Northeast Asia	RCCCA (Keio University)	
Pacific	Secretariat of the Pacific Regional Environment Programme (SPREP)	
South Asia	Climate Action Network for South Asia (CANSA)	

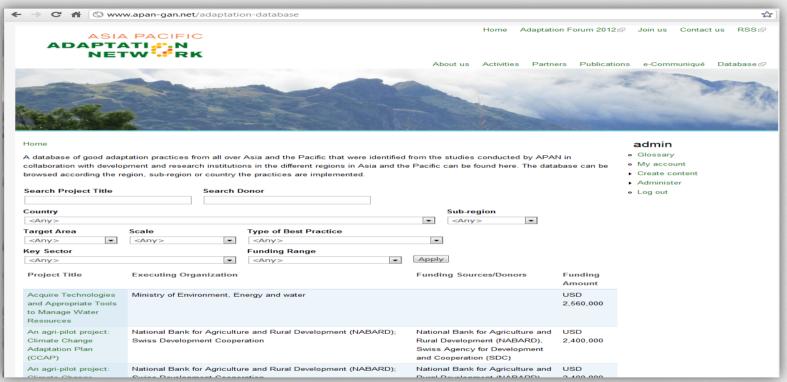
# **Thematic Nodes**

Thematic Area	Thematic Nodes
Water	Global Water Partnership South Asia (GWPSAS)
Mountains	International Centre for Integrated Mountain Development (ICIMOD)
Agriculture	Southeast Asia Regional Centre for Graduate Study and Research in Agriculture (SEARCA)

# Structure of APAN



# Databases on good adaptation practices and technologies



©Online database of good adaptation practices and technologies.

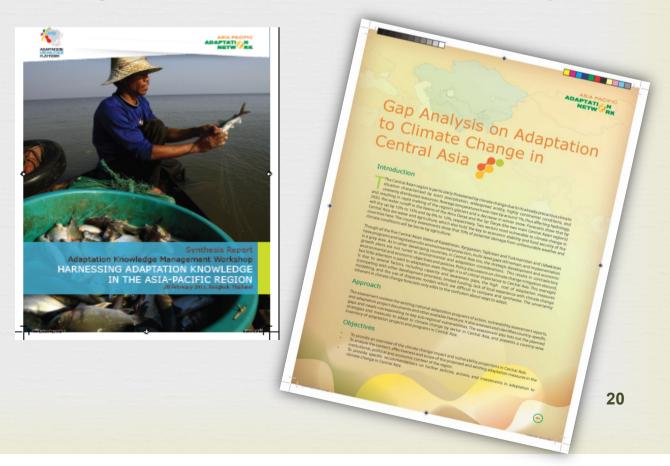
www.apan-gan.net/adaptation-database

# APAN Outputs: Publication on trainings, seminars, workshops and research

03

Rublication: Training, seminar, workshop and study.





# **ASEAN ESC Model Cities Programme**













#### **ASEAN ESC Model Cities Programme (Year 1)**



Funder
Japan-ASEAN
Integration Fund
(JAIF)



Regional Secretariat





An initiative by the
ASEAN Working Group on
Environmentally Sustainable Cities
(AWGESC)

•Objective: Promoting ESC development by supporting capacity building for bottom-up initiatives of ASEAN cities and supporting formulation of national ESC frameworks.

•<u>Year 1</u>: Apr. 2011 - Mar. 2012

•Year 2: (t.b.c.) Proposal submitted to JAIF, awaiting results)

•Assistance to: 14 cities in 8 countries (Cambodia, Indonesia, Lao PDR, Myanmar, Malaysia, Philippines, Thailand and Viet Nam)

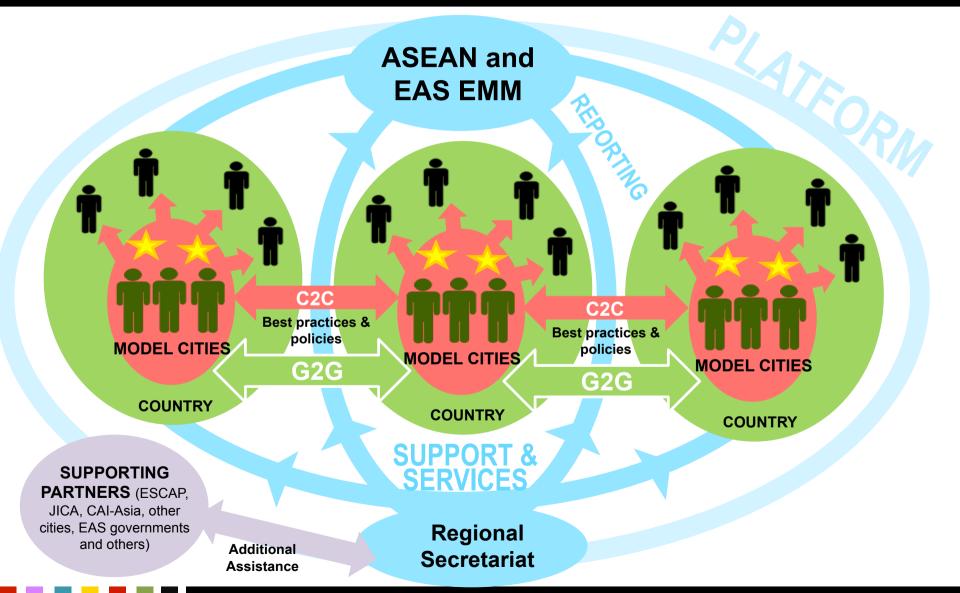


#### **Background of the programme**

Recommended Recommended 5 Ministers agreed that Followed up continuing the practical **Environmentally HLS ESC and** developing activities for Sustainable the **Model Cities** promoting ESC Cities' (ESC) shall be **ASEAN** programme as a in the region, FSC Model the an immediate platform for Cities including a 'Model The 'Singapore priority area for Programme furthering ESC Cities' Declaration initial collaboration. development in on Climate programme. the region Change, 1st EAS 1st High **Energy and** Environ. 2nd 2nd 3rd 3rd the Level **Ministers EAS** HLS **HLS EAS Environment'** Seminar Mtg. (EMM) **ESC** was adopted. **EMM ESC EMM** (HLS) on **ESC** 2012 2010 2011 2008 2009 2007 2013 YEAR 1 (2011 - 2012)•ASEAN ESC Model Cities Programme is the first practical initiative under the EAS EMM framework **Grand Regional** Inception Seminar •It is designed to support the EAS Environment Ministers priority area of Environmentally Sustainable ASEAN ESC Cities (ESC)



### The programme's approach and implementation





#### 8 countries, 14 cities

## **Selected Model Cities (Year 1)**

Country	Model Cities	Main Activities
Cambodia	Phnom Penh	Reducing plastic bag usage in shops
	Siem Reap	Piloting a community-based waste separation scheme
Indonesia	Palembang	Replicating a successful waste bank in Yogyakarta as part of a nationwide rollout
	Surabaya	
Lao PDR	Xamneua	Strengthening project management skills and mini demo-projects in waste management, wastewater treatment and urban greenery
Myanmar	Yangon	Training on sustainable water supply and treatment
Malaysia	Kuching North	Developing a local formula of Bokashi composting and piloting a compost centre
Philippines	Puerto Princesa	Training for composting, water management and piloting a new system of wastewater treatment
	Palo, Leyte	Training for composting and water management
Thailand	Maehongson	Promoting waste segregation and recycling through education and training
	Muangklang	Promoting and training for low carbon city plan implementation and organic farming
	Phitsanulok	Supporting the scale-up and dissemination of the "Phitsanulok Model" of waste management
Viet Nam	Cao Lanh	Establishing a local-level multi-stakeholder 'self-protection' committee for the environment and formulation of its strategy
	Da Nang	Creation of a 'Model Environmentally-friendly Residential Area' with pilot projects







Established over 55 pilot Waste Banks in 6 months



# **INDONESIA**







Producing bio-waste extract fertiliser from composting



ore After

**XAMNEUA** 

Banks of River Nam Xam were greened

# LAO PDR MALAYSIA





Learnt from Thailand and Japan on organic waste management















#### **Outreach and knowledge management – towards Year 2**





## **Promote International & Regional Discussions**

# ISAP: International Forum for Sustainable Asia and the Pacific

ISAP4: Steering towards a sustainable and resilient future (26-27 July 2012, Yokohama, Japan)

- Co-organized by IGES and UNU-IAS.
- Collaborators: UNESCAP, UNEP, and ADB.
- Participants: 850 people
- ●Themes: Follow-up to Rio+20 including green economy and SDGs, climate change, and resilience





Dr. Rajendra K. Pachauri

Prof. Dr. Klaus Töpfer





# **Quick observation**

- Inter-disciplinary
  - How serious are we and to what extent are we committed to the reality?
  - Problem-driven and solution oriented
- Trans-disciplinary
  - Co-design and co-produce
  - Staff exchange
- Scientific quality assurance and impact generation
  - Quality criteria for inter-disciplinary research
  - Evaluation criteria for trans-disciplinary research
  - Timing matters



# Thank you very much for your attention!

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