



Korea Environment Institute



Supporting Efforts to Enhance Climate Change Adaptation in Korea

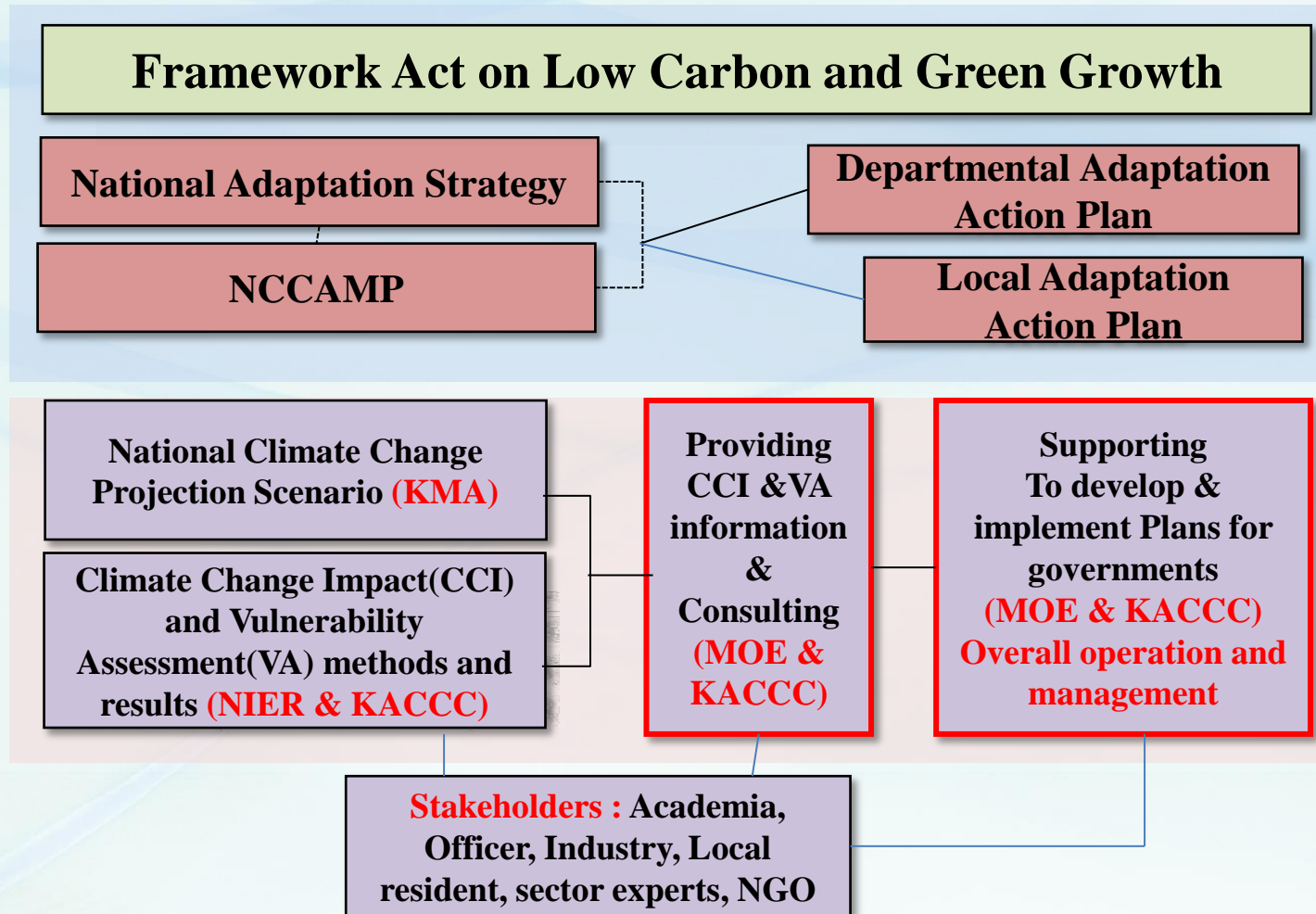
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**Korea Adaptation Center for Climate Change
(KACCC)
at Korea Environment Institute
(KEI)**

Contents

- Legal bases and roles of KACCC
- Support for establishing & implementing government plans : Central, Provincial, Local
- Information providing service
- Supporting activities : networking and PR
- Capacity building and education
- Adaptation researches
- Future challenges...

A supporting system and related organizations for development of CCA in Korea



*Climate Change Adaptation(CCA), Korea Meteorological Administration(KMA), National Institute of Environmental Research(NIER), the Ministry of Environment (MOE)

Legal Bases and Roles of KACCC

KACCC as a Legal and National Center for Climate Change Adaptation

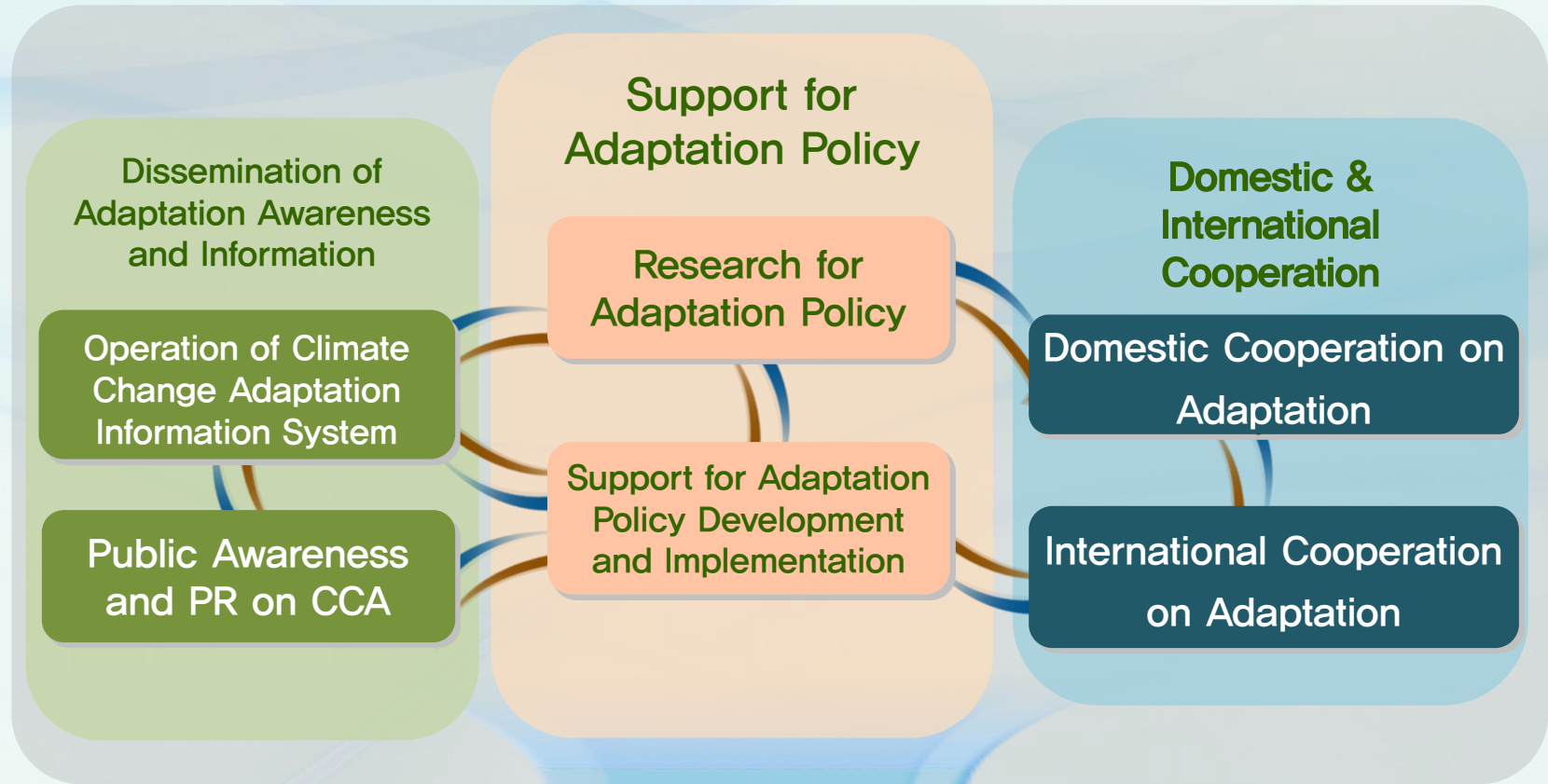
Establishment of KACCC

- KACCC was established on July 1, 2009, based on “the Ministry of Environment Instruction No. 850” .
- The items on the operation of KACCC was legalized by “the Clean Air Conservation Act” (Revised on May, 2012).
- KACCC is an agent of the Ministry of Environment and works closely with the MOE.

Main Roles of KACCC

- Support development and implementation of CCA policy and plans
- Provide information & enhance awareness on CCA
- Establish national and international networks
- Carry out researches regarding CCA

Supporting Task of KACCC



**Leading Policy Development and Research
for Enhancement of National Adaptation Capacity**

**Support for Establishing &
Implementing Government Plans :
Central, Regional, Local**

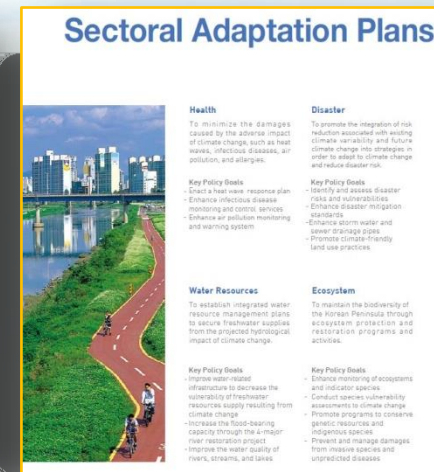
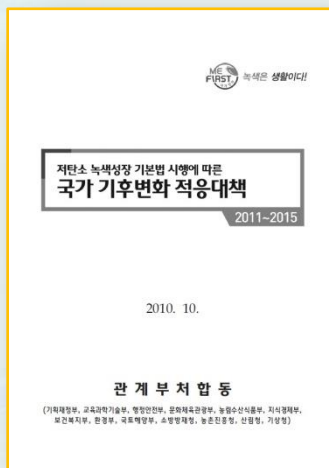
Support for Establishing the NCCAMP

KEI Korea Environment Institute



1. Support to organize and operate an expert forum, a working level execution team, and a supervisory meeting to prepare a draft
2. Play a role of hub of actors, exchanging information and collaborating among departments
3. Publish and distribute the NCCAMP (in 5 year term)

***NCCAMP : National Climate Change Adaptation Master Plan**



[A printed copy of the NCCAMP and contents of the brochure]

Support for Implementation of NCCAMP

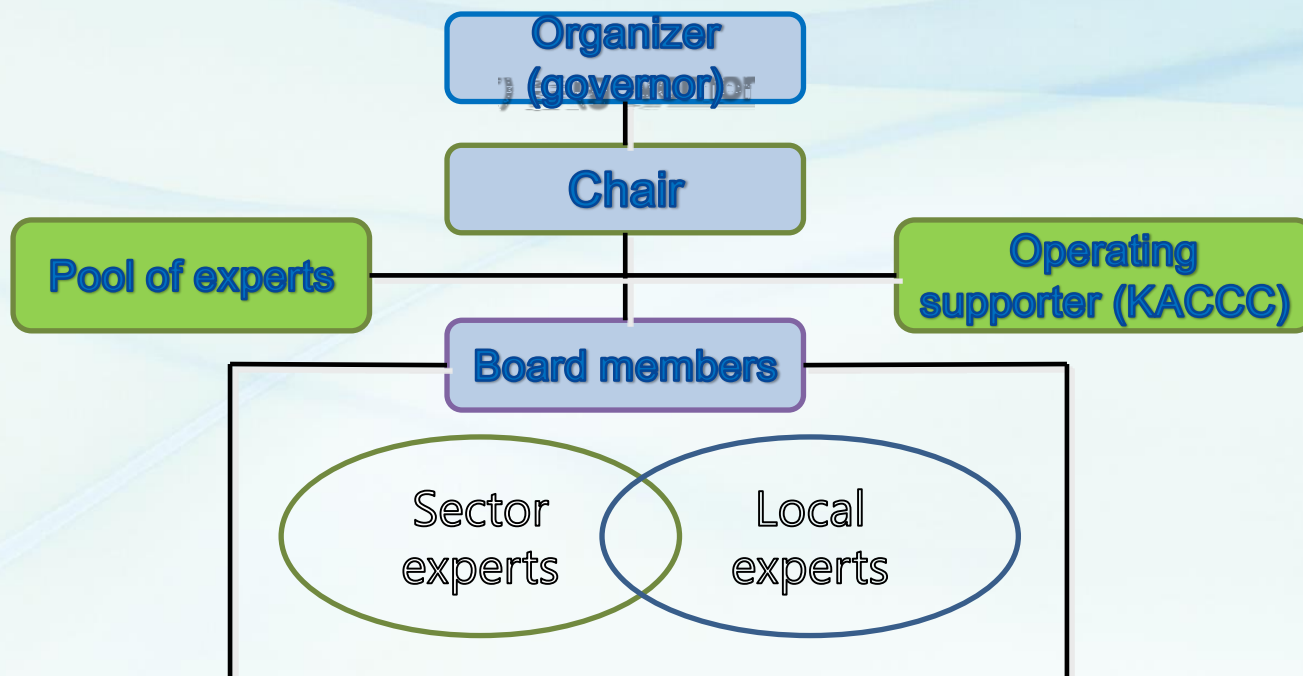
1. Organize the committee of an expert group for each area.
2. Support to set implementing and monitoring systems.
3. Provide a guideline how to assess the plan.
4. Review the NCCAMP and the annual action plan of each department.
5. Help to organize the departmental collaboration committee.

- **Support to establish and to operate CCA action plans in the mega city(7) and province(9) level**
 - **Help to organize and run the efficient support system for establishment and operation of the action plan**
 - **Provide training and host workshops to strengthen adaptation capacity of regional governments**
 - **Conduct VA and provide the results to prepare action plans**



Support for Local (community) Level CCA

1. Help to conduct vulnerability assessments and support the establishment and operation of CCA action plans at local level
2. Provide the results of VA to prepare the action plan in the trial regions
3. Help to organize the advisory board (40 specialists for 10 sectors)



[Organization of the advisory board (TFT) to prepare the plan by local governments]

Support for Local (community) Level CCA

- **Systematize policy management and mainstream adaptation policies**
- **Monitoring and evaluation of adaptation policies**
 - **Build inventories of policies for monitoring**
 - **Suggest evaluation items for each stage of policy**

> Evaluation items for each stage of policy



Information Providing Service

❖ Develop a supporting system for providing information

- Provide a supporting system for web-based adaptation policies and inventory search service
- Open the wizard page for adaptation to support the establishment of the adaptation policies

The screenshot displays the 'Direct Adapt' website. The main header includes navigation links: '시스템 소개', '국내 적응정책 현황', '분야별 정책', '예산계획 조회', '적응산업 지원', and '적응 위치도'. The main content area features a large banner for '기후변화 적응정책 지원 시스템' (Supporting System for Climate Change Adaptation Policy) with a background image of a green field. Below the banner, there are sections for '저탄소녹색성장법' (Low Carbon Green Growth Act) and '적응계획 및 대책' (Adaptation Plan and Measures). The 'Inventory Search' section is visible at the bottom, showing a search bar and various filter options for '구분' (Category), '적응 분야별 선택' (Adaptation Area Selection), '정책 분야별 선택' (Policy Area Selection), and '영향 및 취약 인자' (Impact and Vulnerability Factors).

Supporting System for
Climate Change Adaptation Policy
(<http://adapt.kei.re.kr>)

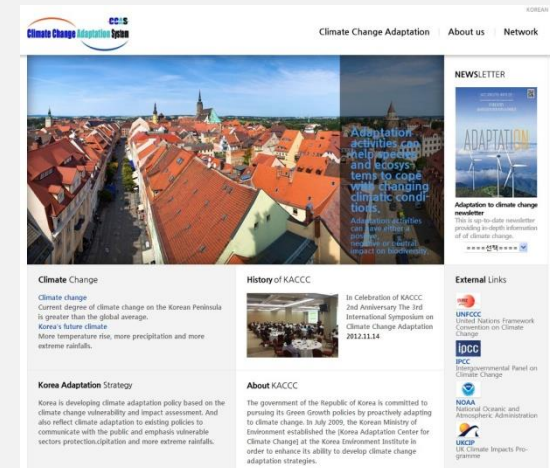
The Role of Information Provider

❖ Construct PR homepage and renew Climate Change Adaptation Portal (Korean/English)

- Construct KACCC homepage in 2009
- Renew it in 2010
- Construct a portal of climate change adaptation in Korean/English in 2011

❖ Build a Climate Change Adaptation System

- Build a pilot site for the information delivery system in 2010
- Build “Climate Change Adaptation Intelligence System” in 2011



Climate Change Adaptation System in 2011
(<http://ccas.kei.re.kr>)

Supporting Activities : Networking

❖ Reinforce to collaborate with domestic organizations in Korea

- Sign MOU with them and set a foundation to reinforce partnerships



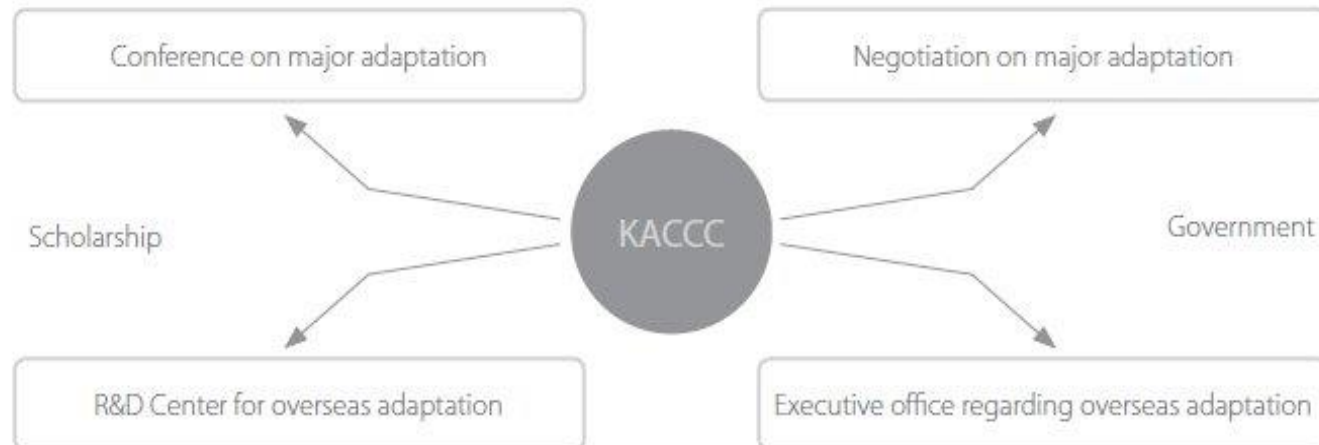
❖ Share research results on CCA with them

- Host workshops to share achievements on adaptation researches
- Publish the research source book jointly with various organizations (2011)

International Adaptation Networking

- ❖ Participate in the conference and international adaptation meetings and cooperate with delegates regarding CCA
 - Sign MOUs with overseas organizations related to adaptation
 - Visit, invite, interview, and try to execute collaboration with overseas organizations whose specialty is adaptation.
 - Try to participate major international meetings and support government level negotiations related to adaptation

> Concept diagram of international network of KACCC



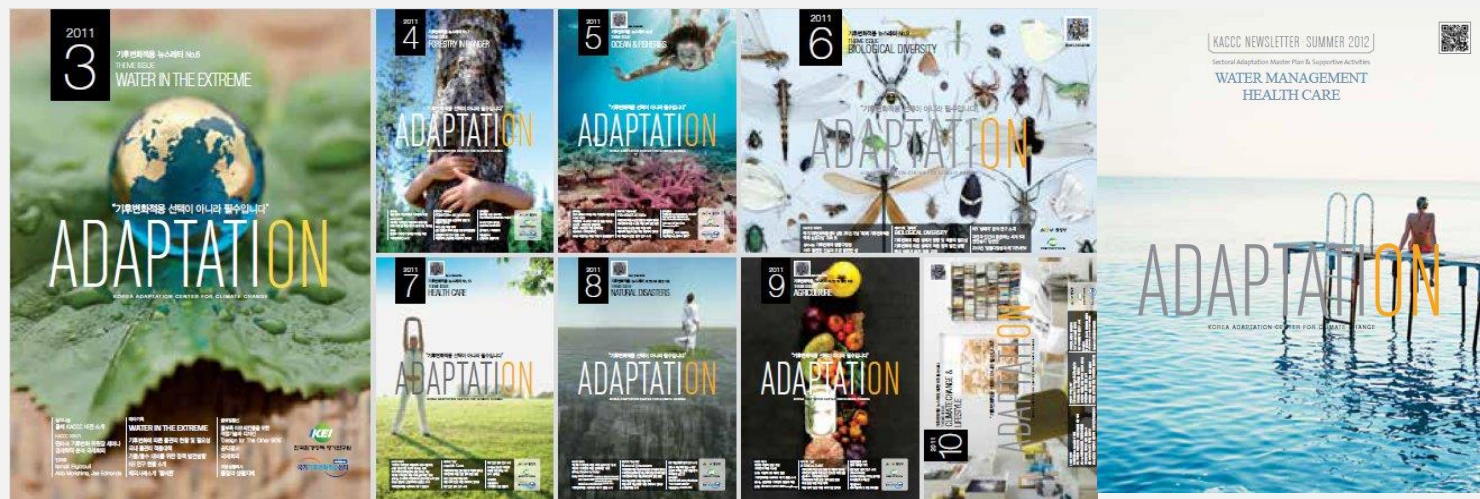
- ❖ Review the current international adaptation issues and host international symposium
 - Examine latest trends of adaptation (document survey)
 - Host international symposium on CCA (2009~2012)



Supporting Activities : Public Relation

Public Awareness : the Goal of PR

- ❖ Publish and distribute of adaptation newsletters (Korean/English)
 - Publish the Korean/English version of the newsletter each quarter since last year
 - Contribute to enhance awareness and understanding of climate change adaptation through the publication of newsletter



Expansion of general public awareness on adaptation through PR

❖ Produce adaptation PR media and publicize information

- Select core adaptation information, make a point of it, and get the attention through distinct style and design.
- Expand PR contacts for the information using various distribution channels, such as academic events, international meetings, and field PR with the produced PR materials (video clip, brochure, etc.)



Supporters of CCA

❖ Operate CCA Supporters

- Develop training materials that are specifically customized to climate change adaptation using various ideas and teaching methods
- Improve the response on education and concentration level through customized classrooms with help of supporters



***Supporters are composed of university students who participate in KACCC' s PR program and educate elementary school students on CCA.**

Capacity Building and Education

❖ Train local government officials and run the expert forum

- Support adaptation policies and reinforce capacity through experts' forum on CCA
- Reinforce capacity of people who is in charge of adaptation of local governments through the training and education regarding the establishment of action plans



Capacity for Industries on CCA

- ❖ **Improve awareness of CCA in the private sector and revitalize the execution of adaptation plan for industries**
 - Hosted the forum for finding new industries and promising industries regarding CCA (2011)
 - Hosted the workshop to improve the capacity of CCA for the industries (2012)



forum

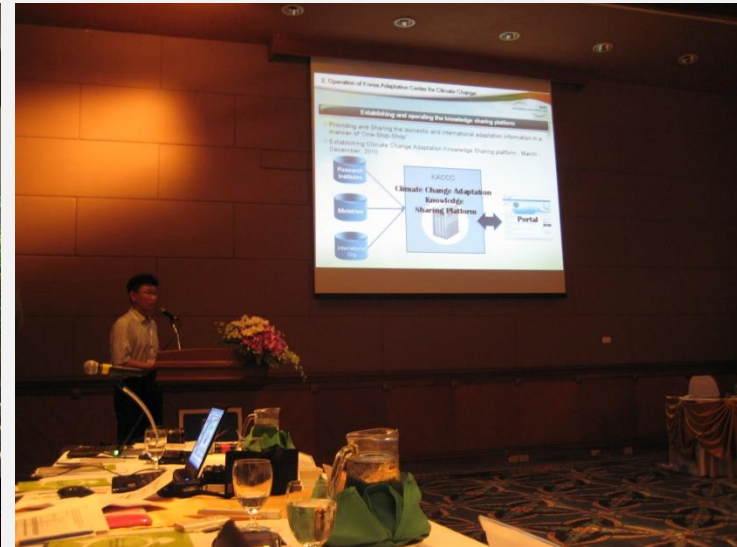


workshop

Support reinforcement of adaptation capacity of ASEAN countries

❖ Train government officials in ASEAN on climate change adaptation

Establish adaptation network with ASEAN regions and secure global leadership by training government officials in ASEAN on climate change adaptation (2010~2012)

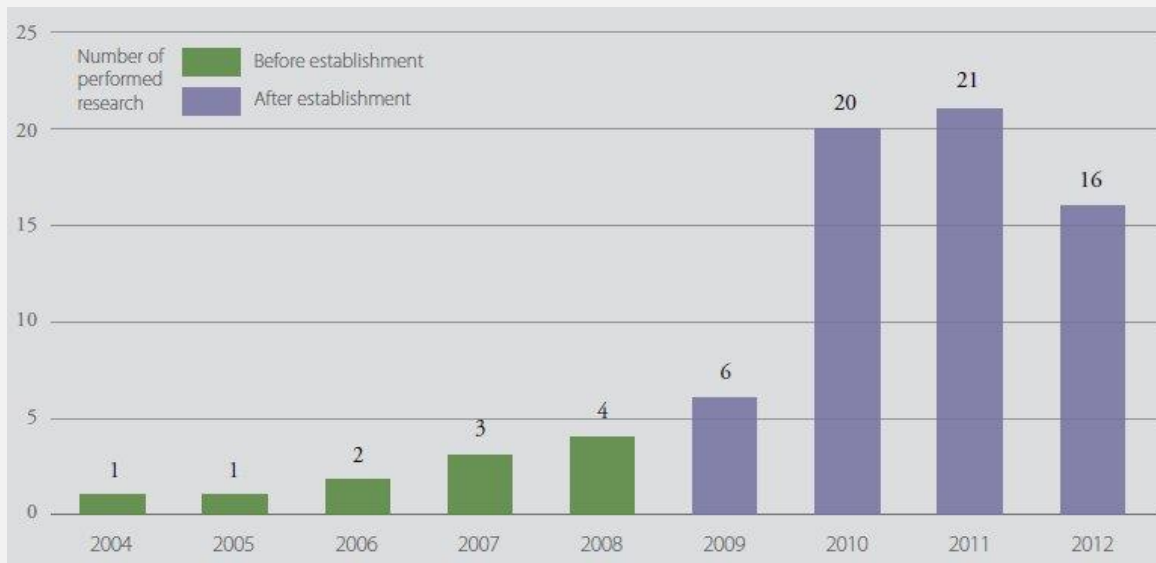


Adaptation Researches

Researches on CCA

❖ Adaptation researches had been increased since 2009

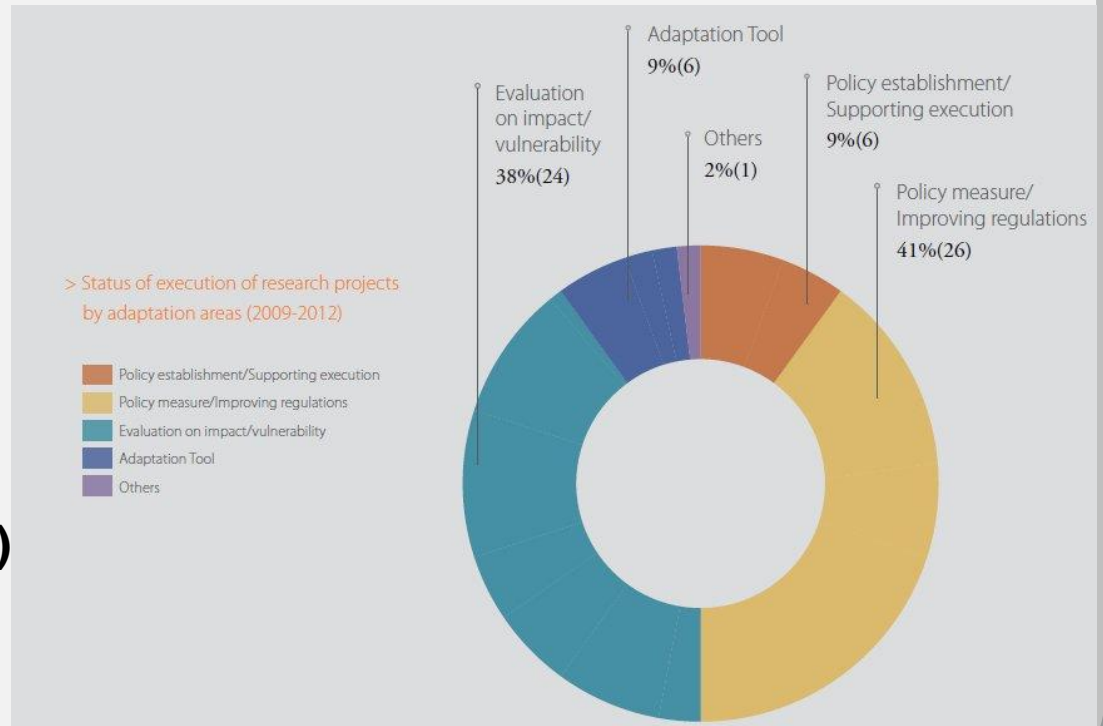
Total number of research projects for five years before the establishment of the center (2004–2008): total of 11 → 63 research projects are either completed or ongoing three years after the establishment of the center



Change in the research execution performance before and after the establishment of the center

❖ Status of execution of research projects by adaptation areas (2009–2012) (all in the web site)

- Policy measure/ improving regulations 26 (41%)
- Evaluation on impact/ vulnerability 24 (38%)
- Adaptation tool 6 (9%)
- Policy establishment/ supporting execution 6 (9%)
- Others 2 (2%)



Future Challenges...

Support Direction for Adaptation

- Support for the policy on the **private sector** and **vulnerable social groups** will be focused.
- **Adaptive capacity to impacts by extreme climate change** should be enhanced.
- Our support system should consider that climate change adaptation should be **mainstreamed in national security and resource management**.
- We should support **new business opportunity** induced by climate change to be discovered and nurtured.

Reinforcement of Adaptation Researches

- **R&D on adaptation** should be reinforced for more effective and efficient policies without **insufficient scientific researches** and be more focused to improve policy implementation and to develop measures.
- Further **researches on risk management strategies** responding to climate change should be conducted.
- Studies on climate change impacts and vulnerability assessment should be improved to reduce uncertainty and to upgrade adaptation policy.

Leap forward to Hub of Adaptation Network

- **Cooperative researches and projects** with national and international adaptation organizations should be enhanced. A successful module needs to be developed through collaboration among them.
- An **integrated climate change adaptation information supporting system** should be developed.

Reduce barriers to implement adaptation practices

- Reduce **uncertainty and lack of knowledge** about climate impacts
- Promote **short-term approach** to impacts, costs and benefits of adaptation measures
- Raise **lack of political will and public support**
- Support to **resolve shortage** of financial and human resources for adaptation
- We should endeavor to **improve efficiency** of researchers and practitioners' performance.



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Thank you for your attention!

