

# KACCC's Experiences for Climate Change Adaptation in the Republic of Korea

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# CONTENTS

**I. Overview of KACCC**

**II. Key Roles and Achievement of KACCC**

**III. Challenges and the Way Forward**

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# I. Overview of KACCC

## I-1. Korea Environment Institute (KEI)

Korea's leading think tank on environmental policy and environmental impact assessment (EIA), as a part of the Korea Council of Economic and Social Research Institutes under the Prime Minister's Office.



# I. Overview of KACCC

## I-2. Korea Adaptation Center for Climate Change ([KACCC](#))

### [Purpose]

- Strategic research and policy support for adapting to climate change and the National Climate Change Adaptation Plan

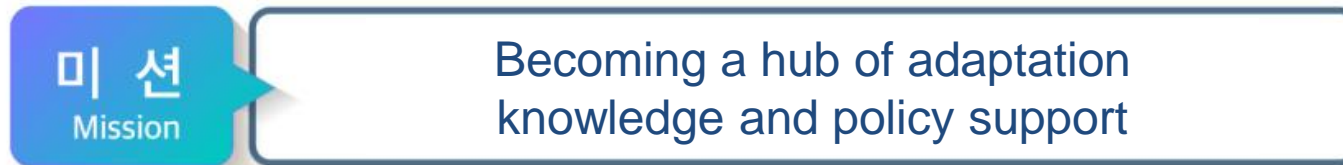
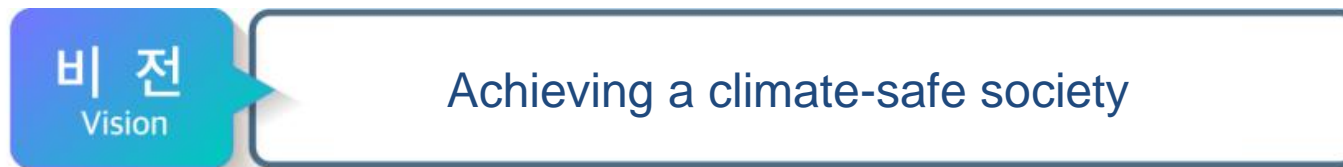
### [History]

- KACCC was established on July 1, 2009, based on MOE Instruction No. 850
- The operation of KACCC was legalized by “the Clean Air Conservation Act” in 2012



# I. Overview of KACCC

## I-2. Korea Adaptation Center for Climate Change ([KACCC](#))



Goal 1

Policy  
Research and  
Support

Goal 2

Supporting  
Major  
Adaptation  
Groups

Goal 3

Supporting  
Decision-  
Making

Goal 4

Cooperation  
and Public  
Awareness

## II. Key Roles and Achievement of KACCC

### II-1. Policy Research and Support

#### 1) Policy Support for the Central Government

	1 <sup>st</sup> National Climate Change Adaptation Plan* (2010.10)	2 <sup>nd</sup> National Climate Change Adaptation Plan (2015.12)
Vision	To build safe society and support green growth through climate change adaptation	
Periods	2011-2015 (5years)	2016-2020 (5years)
Implementing Ministries	13 ministries	20 ministries
Features	<p style="text-align: center;"><b>&lt;Key Changes&gt;</b></p> <ul style="list-style-type: none"> <li>• Suggest an adaptation plan to achieve a long-term vision → • Differentiate mid and long-term goals for climate change adaptation at the national level</li> <li>• Limited to the effects for climate change adaptation → • Aim at creating co-benefits of mitigation and adaptation</li> <li>• Prepare a plan based on existing adaptation issues → • Harness science-based approach with impact and risk assessment of climate change</li> <li>• Regular monitoring of the implementation status → • Enhance monitoring on climate change impact and integrated performance assessment</li> </ul>	

## II. Key Roles and Achievement of KACCC

### II-1. Policy Research and Support

#### 2) Policy Support for the Local Governments

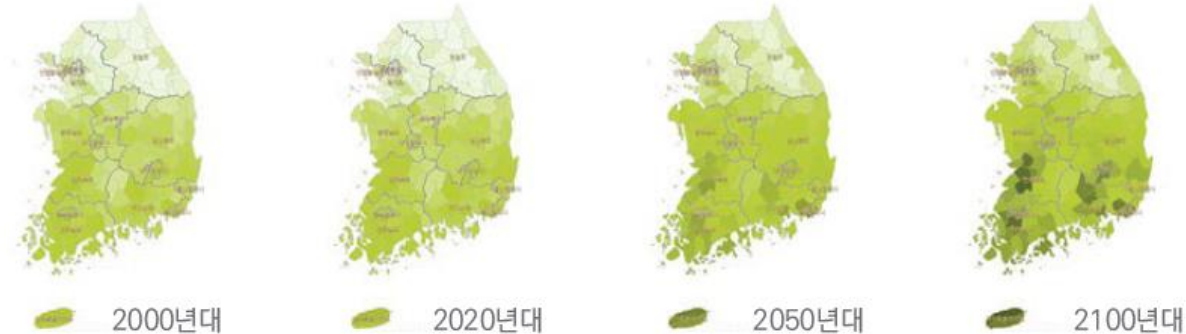


## II. Key Roles and Achievement of KACCC

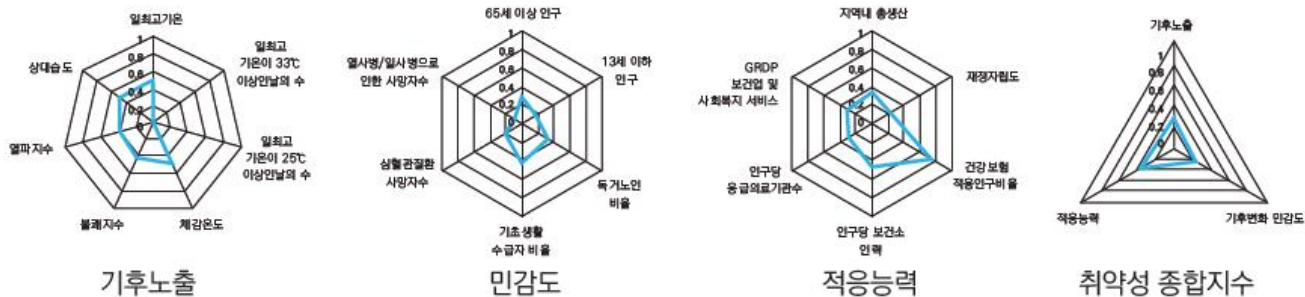
### II-1. Policy Research and Support

#### 3) Various Researches on Adaptation

##### ◎ 현재와 미래 취약성 평가 지도 결과(사례)



##### ◎ 취약성 평가 대응변수별 기여도 분석결과(사례)



[The results of vulnerability assessment on cities ]



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## II. Key Roles and Achievement of KACCC

### II-2. Supporting Major Adaptation Groups

#### 1) Support Program for the Public Infrastructure

- Providing support to the public institutions that manage the major public infrastructure such as power plants, roads, airports, etc
  - Providing manuals/guidelines and supporting tools
  - Providing training and consulting services
  - Providing the results of impact assessments



## II. Key Roles and Achievement of KACCC

### II-2. Supporting Major Adaptation Groups

#### 2) Support Program for the Private Sector

- Providing support to the private sector to enhance its adaptive capacity
  - Disseminating the web-based climate change risk assessment system for the private sector called [CRAS\(Climate Change Risk Assessment System\)](#)
  - Providing training to the private sector



## II. Key Roles and Achievement of KACCC

### II-2. Supporting Major Adaptation Groups

#### 2) Support Program for the Private Sector

- Fostering the adaptation industry
  - Publishing the casebook of the adaptation businesses
  - Selecting the major potential adaptation business partners and developing an adaptation business model
  - Establishing a roadmap for the development of adaptation industry
  - Supporting small enterprises to extend their adaptation businesses abroad



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## II. Key Roles and Achievement of KACCC

### II-2. Supporting Major Adaptation Groups

#### 3) Support Program for the vulnerable groups

- Providing support to the vulnerable groups to enhance their adaptive capacity
  - Identifying and managing the vulnerable groups to climate change
  - Developing and operating the direct support program for the vulnerable groups



## II. Key Roles and Achievement of KACCC

### II-3. Supporting Decision-Making

#### 1) Web-based Climate Change Vulnerability Assessment Tool ([VESTAP](#))

The screenshot displays the VESTAP web application interface. At the top, the logo reads "VESTAP VULNERABILITY ASSESSMENT TOOL TO RISK CLIMATE CHANGE ADAPTATION PLAN" with the Korean text "기후변화 취약성 평가 지원 도구 시스템" below it. A user login status "로그인" is visible in the top right. A navigation bar contains five menu items: "취약성평가 조회", "지자체별 연변도표", "시나리오 DSS 조회", "DSS 조회", and "영역담당".

The main content area features a large banner with a blue sky and white clouds background. The text on the banner states: "“VESTAP” 는 지자체 담당자들의 세부시행 계획 수립을 돕기 위한 도구입니다." To the right of the banner is a teal box with the text "광역지자체별 취약성평가 조회" and a small image of a person at a computer. Below this are two grey buttons with white text and icons: "광역성 취약영역 생성" (with a computer icon) and "지표데이터 생성" (with a bar chart icon).

At the bottom of the page, there is a footer section. On the left, there are tabs for "공지사항", "자료실", and "FAQ". Below these is a small box with the number "112222" and the date "2015-04-21". On the right, there are three promotional boxes: "기후변화 부문별 취약성지도 모고서(1회)", "사용자매뉴얼", and "광역지자체 기후변화 적응대책 세부시행계획 수립 가이드라인". Each box has a "GO" button. The footer also includes the KACCC logo, contact information (TEL: 044-415-7422, FAX: 044-415-7708, E-MAIL: kaccc@korea.kr), and the copyright notice "COPYRIGHT 2014 KACCC ALL RIGHT RESERVED".

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## II. Key Roles and Achievement of KACCC

### II-4. Cooperation and Public Awareness

#### 1) Domestic and International Cooperation

- Building a domestic and international network on adaptation
- Sharing knowledge and experiences on climate change adaptation
- Holding capacity building programs for developing countries
- Holding various international events including the Asia NAP EXPO, A-P Adaptation Forum, etc
- Support for adaptation efforts by other countries
- Participating in the international adaptation society such as IPCC, UNFCCC, etc

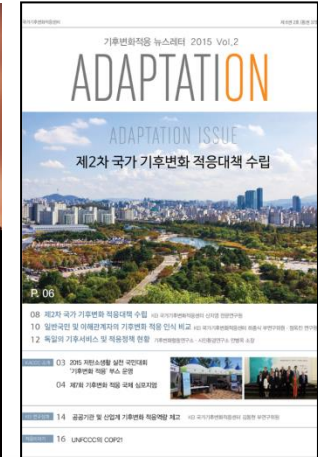
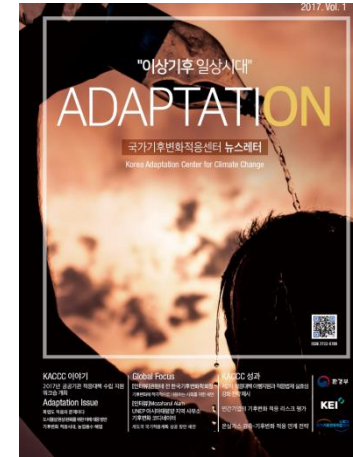


## II. Key Roles and Achievement of KACCC

### II-3. Cooperation and Public Awareness

#### 2) PR & Public Awareness

- Issuing and disseminating a periodic newsletter and brief on adaptation
- Raising awareness of adaptation through SNS
- Developing educational materials on adaptation
- Responding to media in relation to adaptation
- Holding PR events such as Talk Concert



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## III. Challenges and the Way Forward

### III -1. Main Challenges

- Wide work scope
  - Vertical : from the central level to the lower local level
  - Horizontal: various stakeholders from the governments to the civil society
  - Multidisciplinary: 10 sectors
- Position between science and policy
  - Different language and working style
- Long-term goal
  - Difficulty in making a tangible outcome





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## III. Challenges and the Way Forward

### III -2. The Way Forward

- Strengthening the monitoring and evaluation
- Encouraging more stakeholders to participate, and creating an open environment
- Aiming for the long-term goal, but making some tangible outcome in the short and medium term



# THANK YOU!

