

\* Session 2.4.1: Multi-stakeholder engagement in NAPs

# THE WAY TO A CLIMATE RESILIENT SOCIETY,,, ENGAGING MULTI-STAKEHOLDERS PERSPECTIVES IN NAP PROCESS

2023.8.29

Jiyoung Shin, Ph.D

Senior Research fellow, KEI Korea Adaptation Center for Climate Change

[sjirang@kei.re.kr](mailto:sjirang@kei.re.kr)

Korea Adaptation Center for Climate Change(KACCC) was established in July 2009 when the center was consigned to the Korea Environment Institute (KEI) by the Ministry of Environment (ministry-in-charge of climate change adaption).

KACCC has made numerous outstanding achievements, by carrying out strategic research related to climate change adaption and assisting in implementing plans for climate change adaption in the national and local level.

KACCC also seeks to raise awareness of climate change adaption among the general public - including marginalized and vulnerable groups.

One of the core strategy is to mainstreaming climate change adaptation by motivating public participation and establishing international collaborations.

Overall, KACCC aims to enhance the climate resilience the whole social sector across the country and develop science based adaption strategies.



# What is **your perspective** about Climate Change and it's Impact? Why do you think **NAP** is important?

## HEAT

**The Guardian**

*'Uncharted territory': UN declares first week of July world's hottest ever recorded*

**CNN**

*Italy swelters under deadly 'Cerberus' heat wave which could break European temperature records*

**The Washington Post**

*Texas is in the thick of a brutal and prolonged heat wave*

## FLOODING

**abc NEWS**

*Vermont overwhelmed by 'catastrophic' flooding as Northeast braces for more rain*

**CNN**

*At least 41 dead after heavy rain and flash floods in northern India*

## WILDFIRES

**BBC**

*Canada wildfire season is now the worst on record*

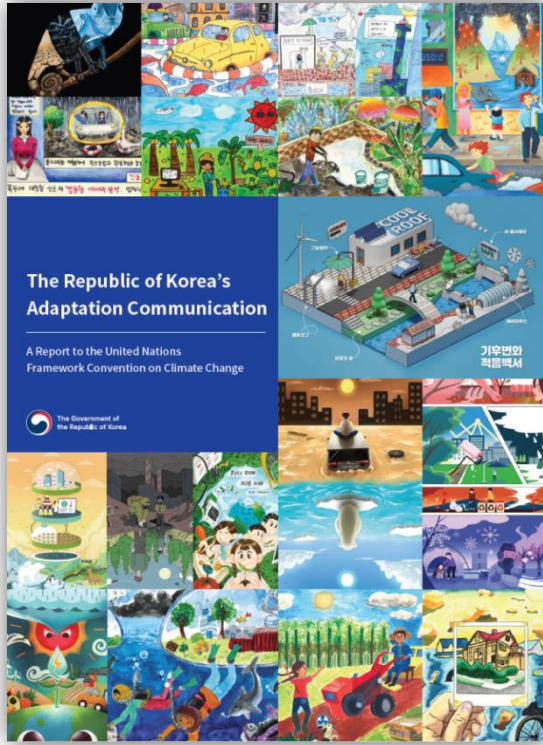
**The New York Times**

*Unhealthy U.S. Air Quality as Wildfire Smoke Covers Chicago and Midwest Cities*

**AP**

*Climate change keeps making wildfires and smoke worse. Scientists call it the 'new abnormal'*





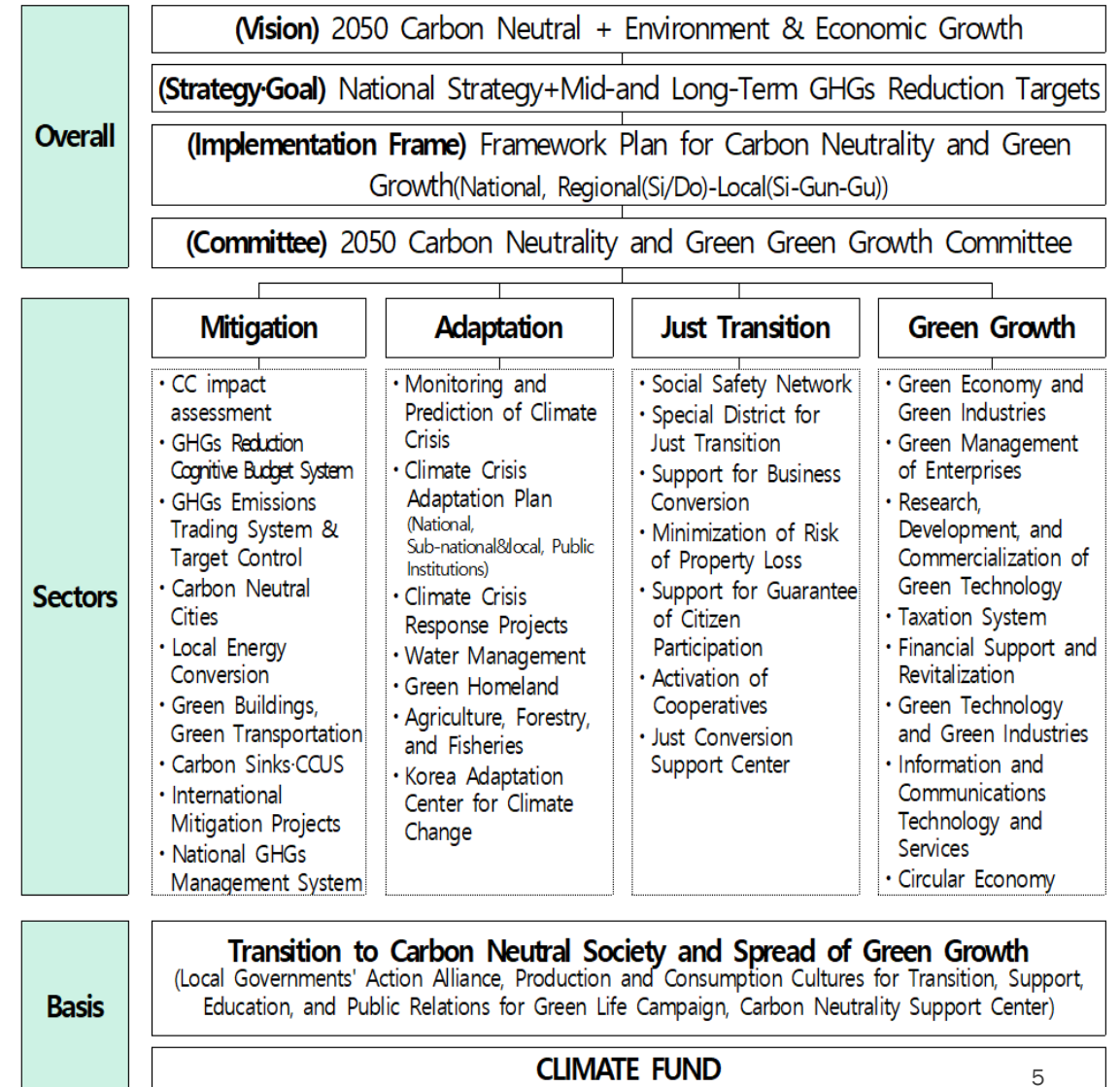
....Over the course of 20 years, Korea has developed Adaptation Strategies and established **three National Adaptation Plans** ....

...The currently implemented 3rd NAP(2021~2025) has limitations in effectively preventing and mitigating the damage caused by the escalating climate crisis. ....Complementary measures are needed, such as **enhancing on-ground action plans and strengthening adaptation infrastructure across all societies.**



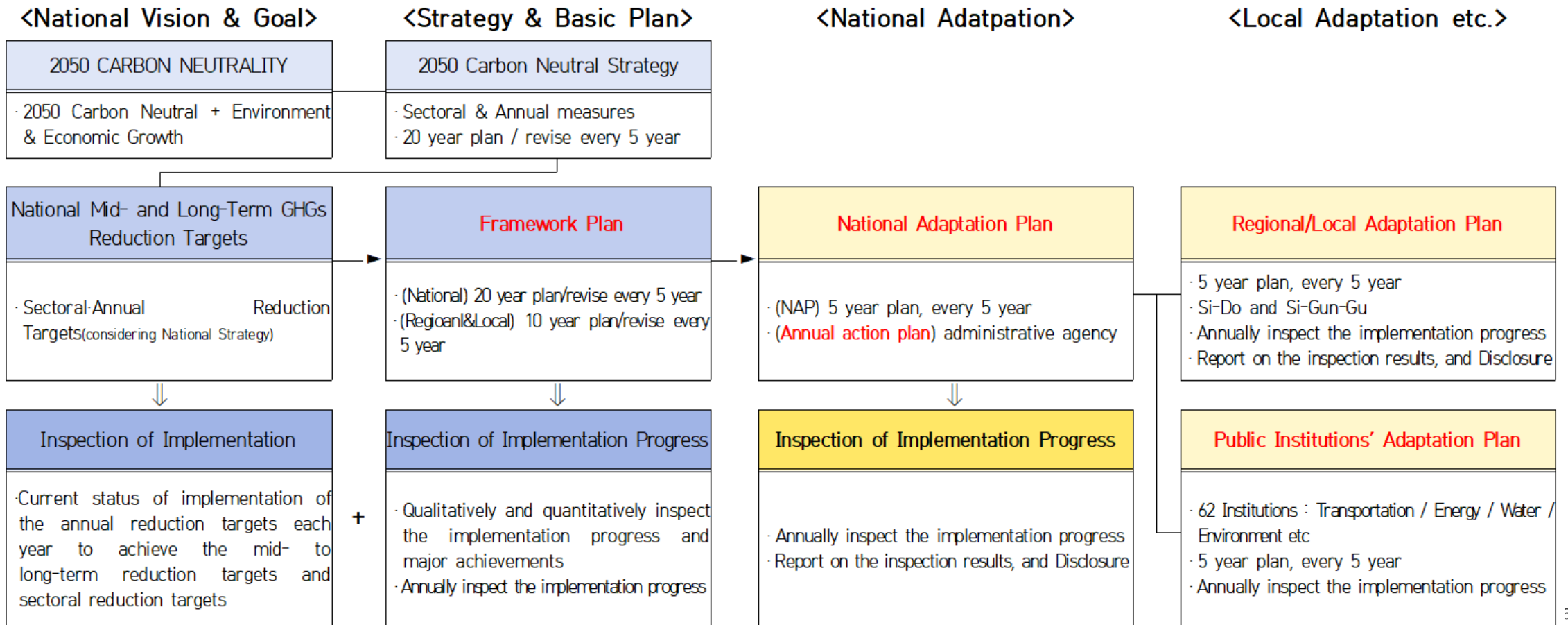
# Law and Systems gives us direction to tackle with climate change

- Legal basis
  - “Framework Act on Carbon Neutrality and Green Growth for coping with Climate Crisis” in 25th March, 2022
- Structure of Framework Act : 11 Chapters and 83 Article
  - Chapter 1. General Provision
  - Chapter 2. National Vision and Greenhouse Gas Reduction Targets
  - Chapter 3. Formulation of National Framework Plan
  - Chapter 4. 2050 Carbon Neutrality and Green Growth Committee
  - Chapter 5. Greenhouse Gas Reduction Policy Measures
  - Chapter 6. Climate Crisis Adaptation Policy Measures
  - Chapter 7. Just Transition
  - Chapter 8. Policy Measures for Green Growth
  - Chapter 9. Transition to Carbon Neutral Society and Spread of Green Growth
  - Chapter 10. Establishment and Operation of Climate Response Fund
  - Chapter 11. Supplementary Provisions

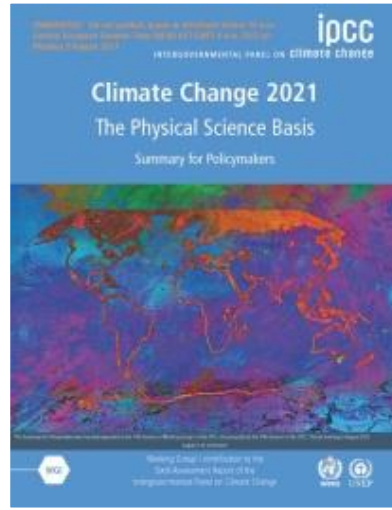
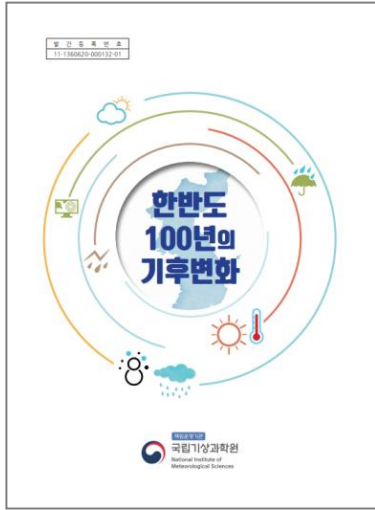


# Law and Systems gives us direction to tackle with climate change

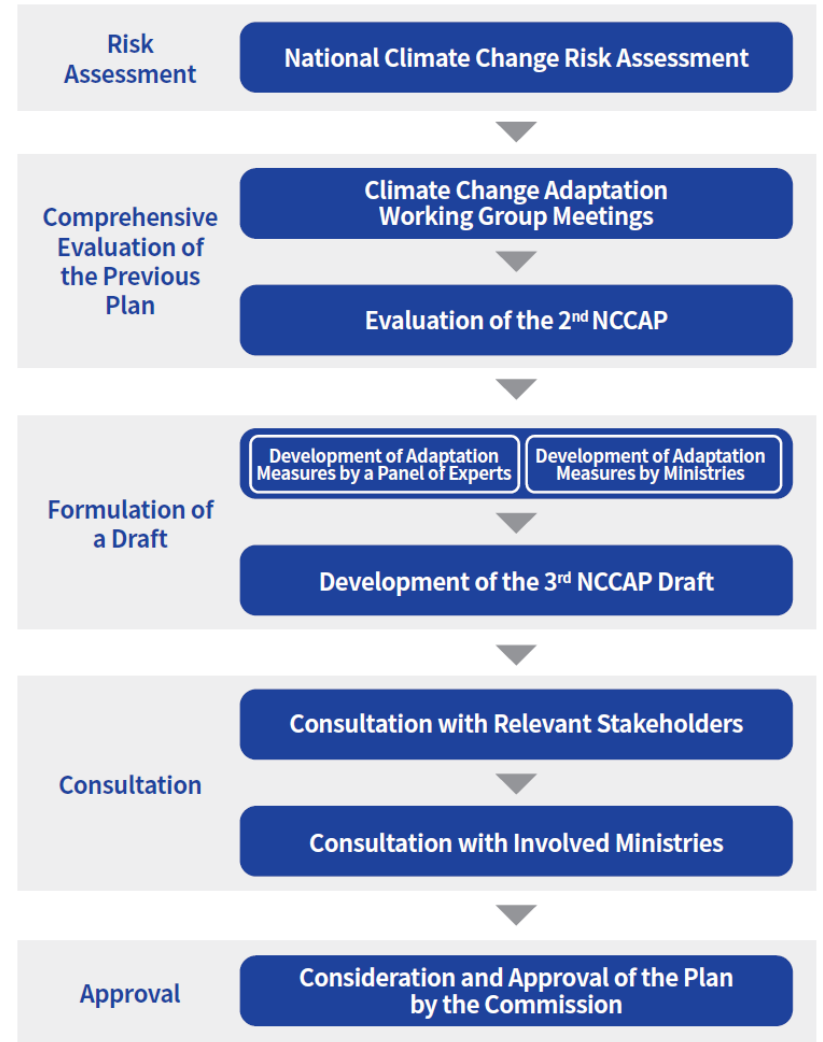
- (5-years) 20-year National Framework plan to achieve the national vision and the mid/long-term reduction targets
- (5-years) National Adaptation Plan / Regional-Local Adaptation Plan/ Public Institution's Adaptation Plan



# For NAP, what is needed?



## <Planning Process of the Third NAP>



**V-ESTAP 기후변화취약성 평가 지원 도구 시스템**

Navigation: HOME, 기후변화취약성, 취약성평가, 지자체간 비교분석, 기후노출 세부정보, 누적현황보고, 사용자정의 취약성, DB정보, 열린마당, 사용자 정보

ADMIN: 지자체별 인벤토리, 전국단위 취약성평가, 전국단위 누적현황보고, 전국 사용자정의 취약성, 열린마당관리, 통계보기, 회원관리

취약성평가: RCP 시나리오 (RCP2.6, RCP4.5, RCP6.0), 평가기간 (2001-2030), 시군구별, 현재

평가항목: 건강 부문, 환경 부문

평가결과: 전국 지도, 지역별 취약성 등급 (0.00 ~ -1.00)

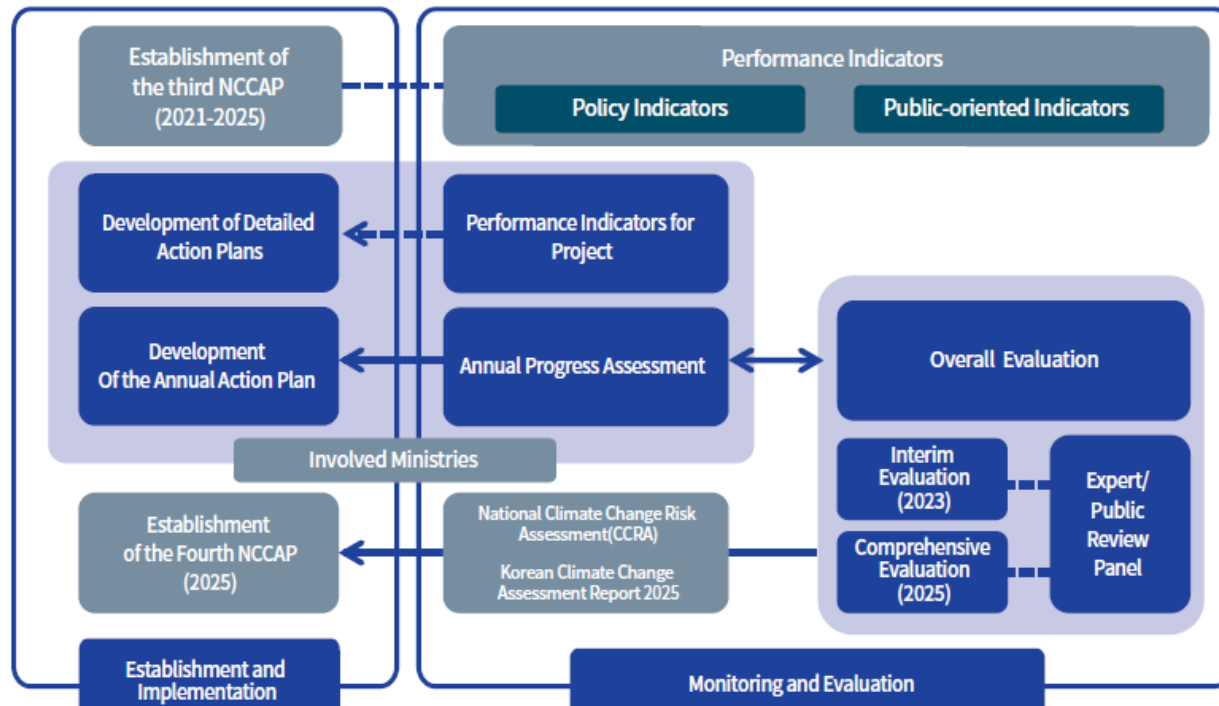
취약성평가 결과 정보: 상세보기, 종합자수, 기초자료 정보

순위	행정구역명	취약성	기후노출	건강	환경	복합지수	평가등급
1	용인군구	0.47	0.38	0.11	0.02		
2	성동구	0.38	0.36	0.06	0.04		

# For NAP, what is needed?

- Every year 17 ministries released detailed action plans for NAP implementation - 20 policy indicators, 16 public-oriented indicators.
- Annually Citizen Panel are organized to monitor the progress against the plan, centering on the public-oriented tasks.
- An interim assessment and a comprehensive assessment are slated for 2023 and 2025, respectively.

Figure 5. Comprehensive Framework of the Third NCCAP



## ① Policy-related Indicators (example)

Area	Indicator	Target	
		2020	2025
Water Management	Number of flood forecasting center	65	218
	National Drought Information Service (NDIS)		To be established
Ecosystem	Establishment of the integrated platform for climate change information on ecosystems		To be established
	Restoration areas of the National Ecological Network	465ha	1,000ha
Terrestrial and Coastal areas	Number of the public rental housing units renovated in the resilient way		225,000
	Number of points covered by a coastal erosion survey	250	300
Agriculture and Fisheries	Number of disaster-resistant facility standards distributed	68	75
	Number of crop species identified to shift cultivation areas due to climate change	17	25

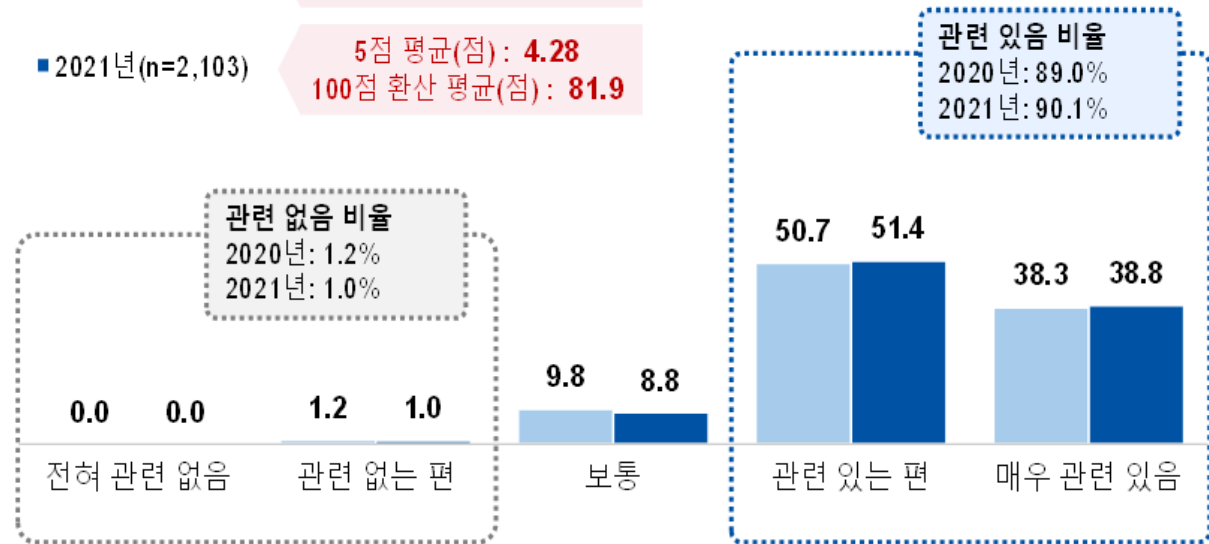
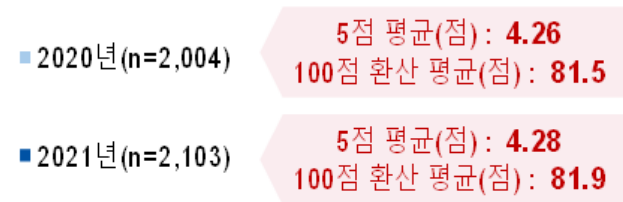
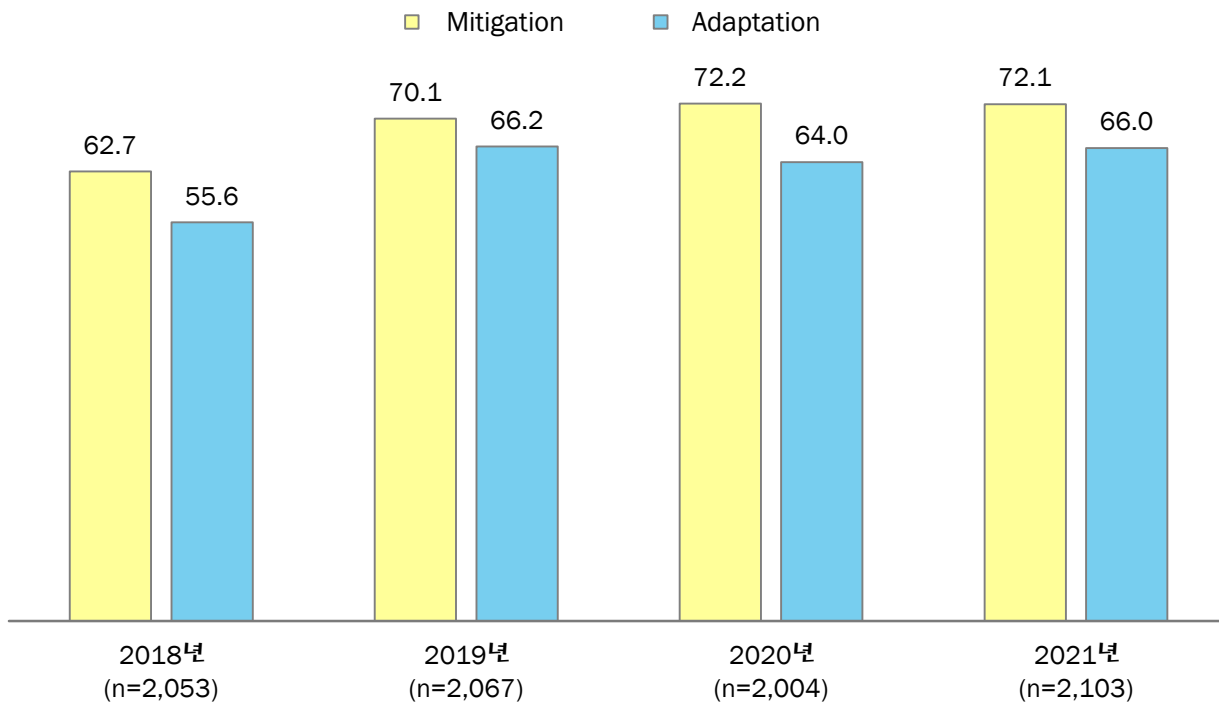
## ② Public-oriented Indicators (example)

Area	Indicator	Target	
		2020	2025
Floods	Flash flood forecast system		To be established
	Number of hot spots for drainage maintenance	114	180
Droughts	Number of annual users of the National Drought Information Portal	110,000	400,000
	Number of locations with a smart water supply management system		209
Species Outbreaks	Database for potential pest or disease species outbreak		To be established
	Guidelines for eco-friendly pest control		To be developed
Forest Disaster	Advanced landslide forecasting system	Forecast with one hour lead time	Forecast with shorter lead time
	Wildfire risk map considering climate change		To be developed



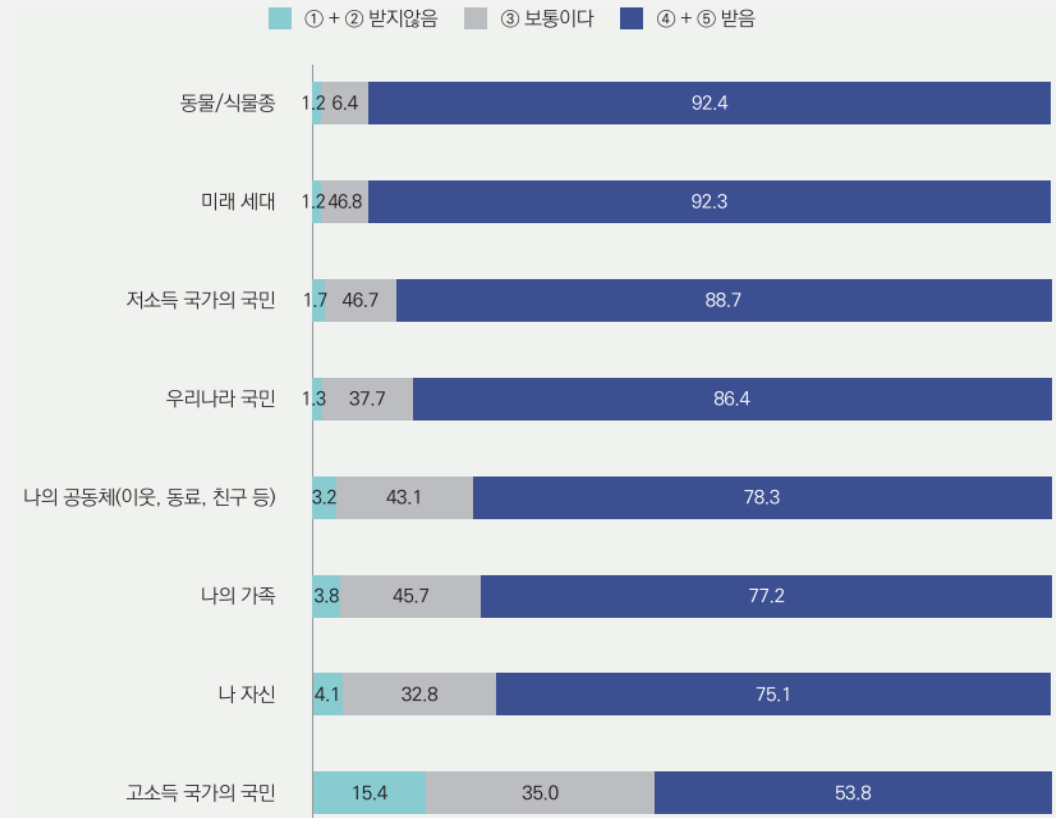
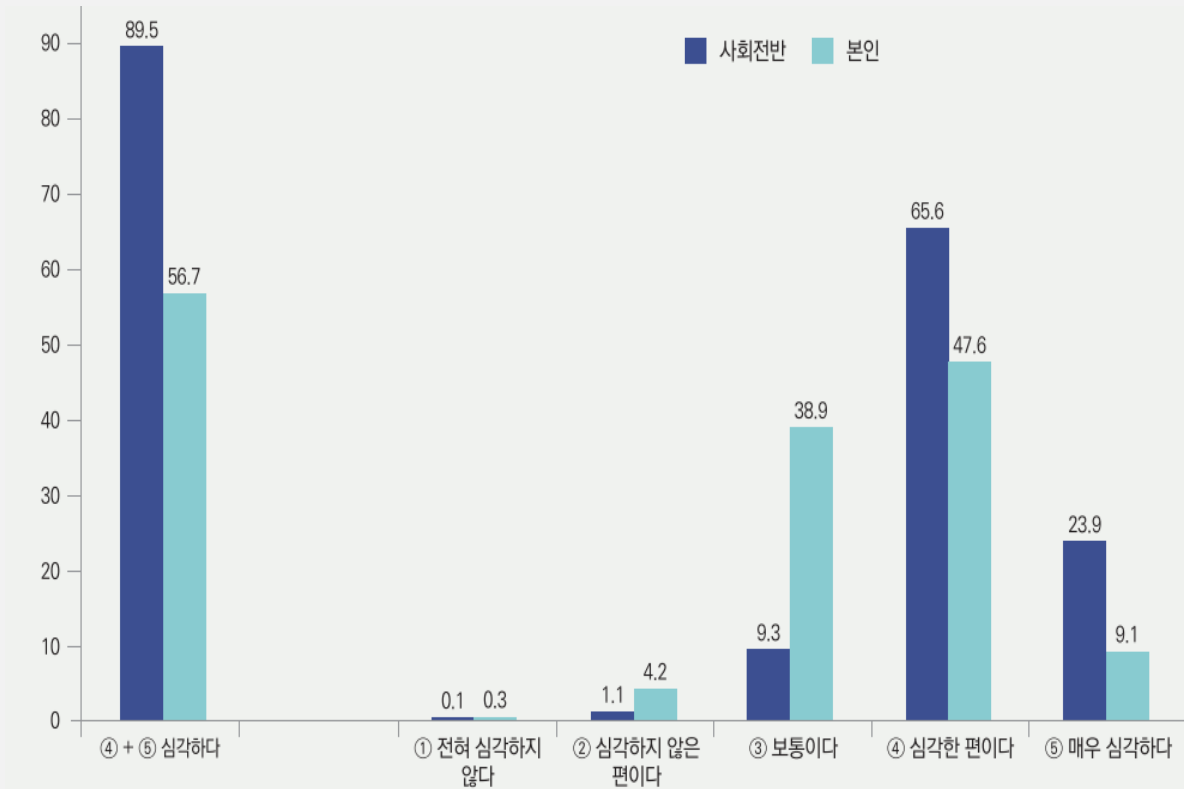
# What is **your citizens** perspective about Climate Change?

- Over 70% answered they know mitigation and over 65% know adaptation. Its getting higher.
- Over 90% answered climate change is related to everyday life.



# What is **your citizens** perspective about Climate Change?

- The issue of climate change is more serious socially than individually.
- The most affected by climate change are animals and plants, future generations, citizens of low-income countries....



# What is **your** **citizens** perspective about Climate Change?

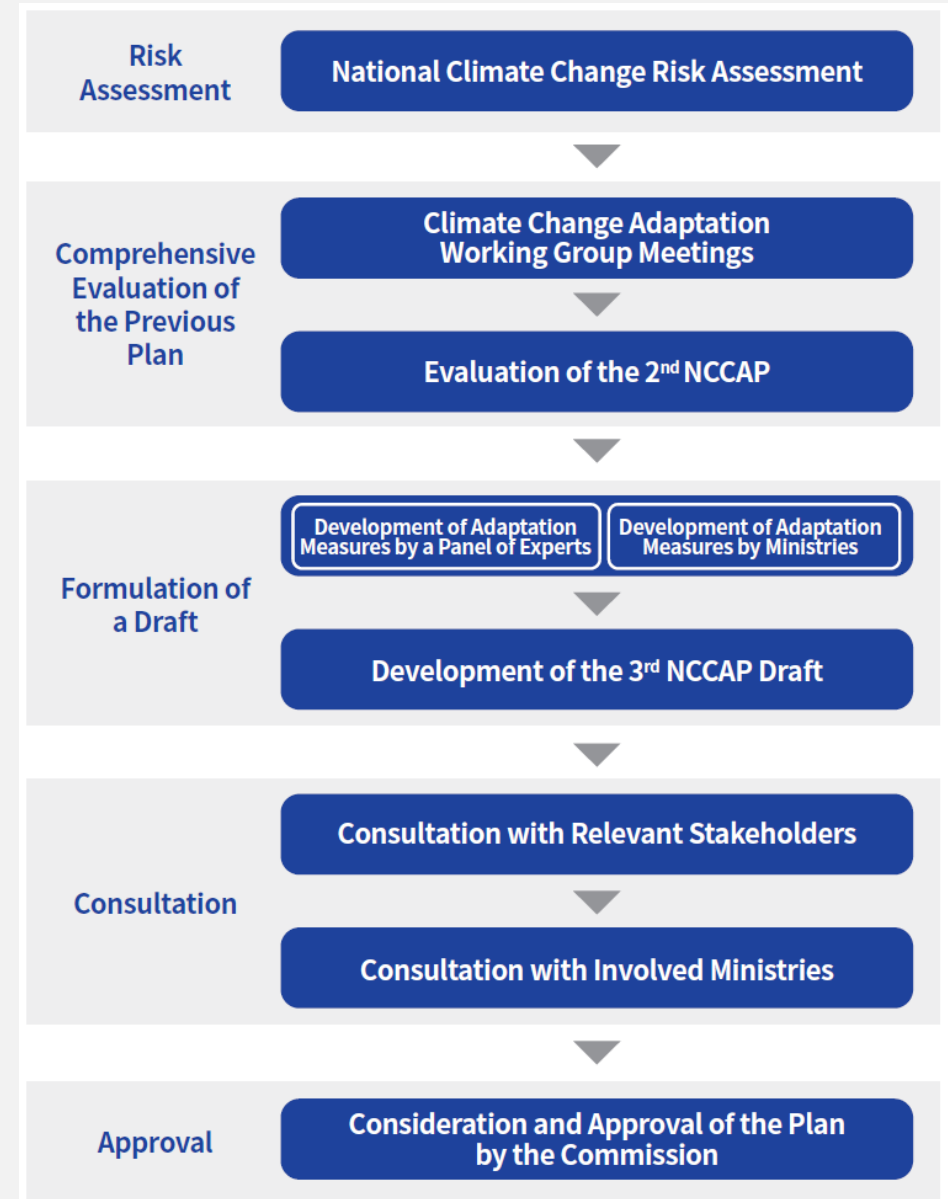
The Eagle Creek fire was first reported at 4 p.m. on Saturday, and quickly grew to 3,000 acres overnight as winds ripped through the gorge. Hikers were stranded and rescued, and evacuations were ordered for nearby communities over the weekend. After six days, [Eagle Creek fire containment is just at 5%](#) says the Oregonian, [having burned approximately 31,000 acres](#), which is about one-third the size of Portland.



*“The golfers and I were not actually in any danger,” says McCluer. “When I was done taking pictures, I walked over to them and we talked about how crazy and surreal and horrifying this event is,,,”*

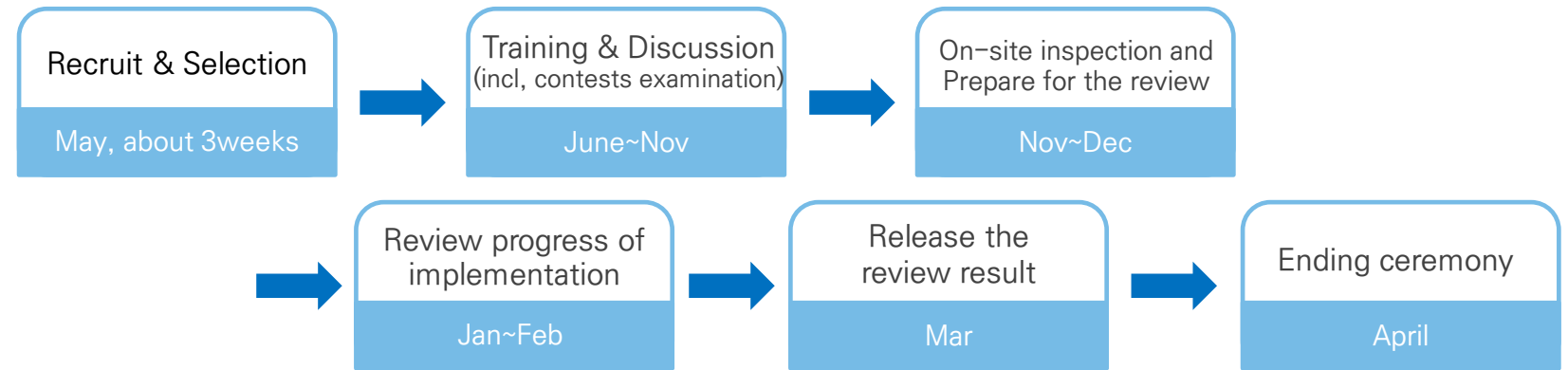
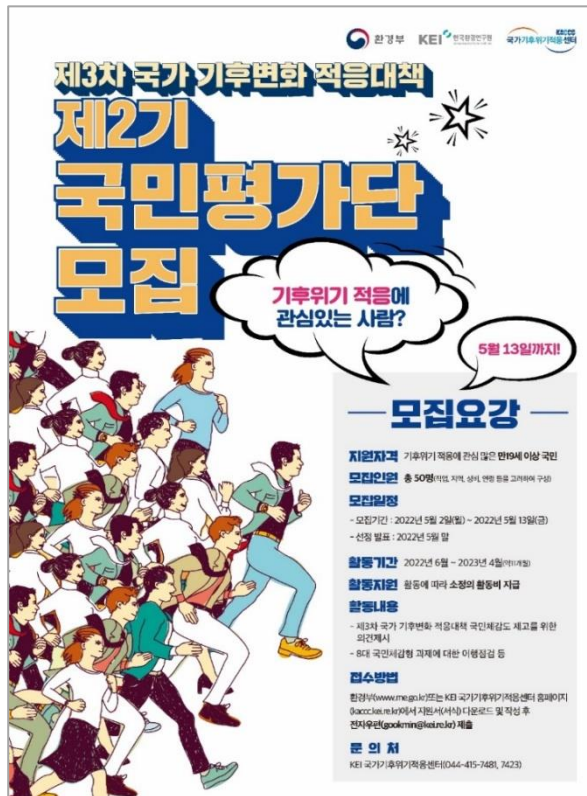
Throughout all stages of Adaptation, let's endeavor to **involve a variety of stakeholders whenever possible**

*National Assembly  
Ministries, Local Governments,  
Experts from each Sectors, Academia,  
Business and Industry,  
Public Institutions,  
Future Generations and Young People,  
NGOs....*



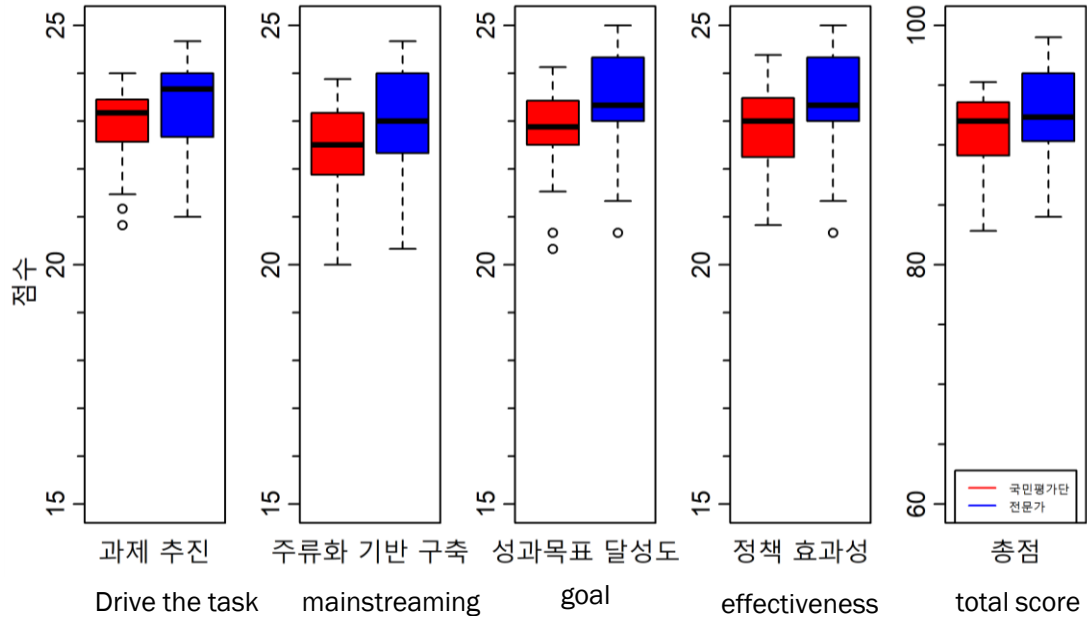
# 1. Citizen Panel for NAP M&E

- To enhance peoples' understanding of adaptation policy and strengthen participation of NAP
- Citizen Panel present opinions on the 3rd NAP and check the implementation of public-oriented measures
- (Activity period) [1<sup>st</sup>] '21.4~22.5, [2<sup>nd</sup>] '22.6.~'23.4
- (Size) 50 citizens aged over 19 who are interested in adapting to the climate crisis

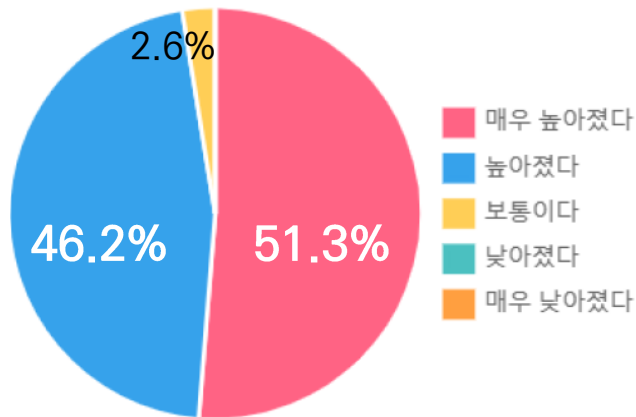


# 1. Citizen Panel for NAP M&E

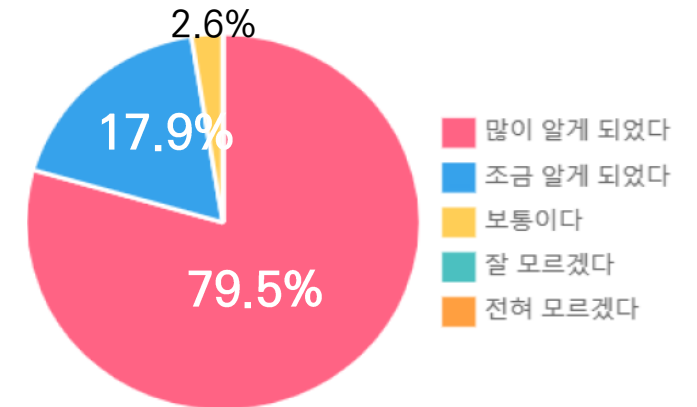
국민평가단/전문가 항목별 평가점수 분포



- Through the Citizen Panel, we can understand the effectiveness and perception of Adaptation Policies
- The evaluation scores of the citizens panel were generally lower than those of the expert panel, indicating the need for improved perceived effectiveness and efficacy of adaptation policies.

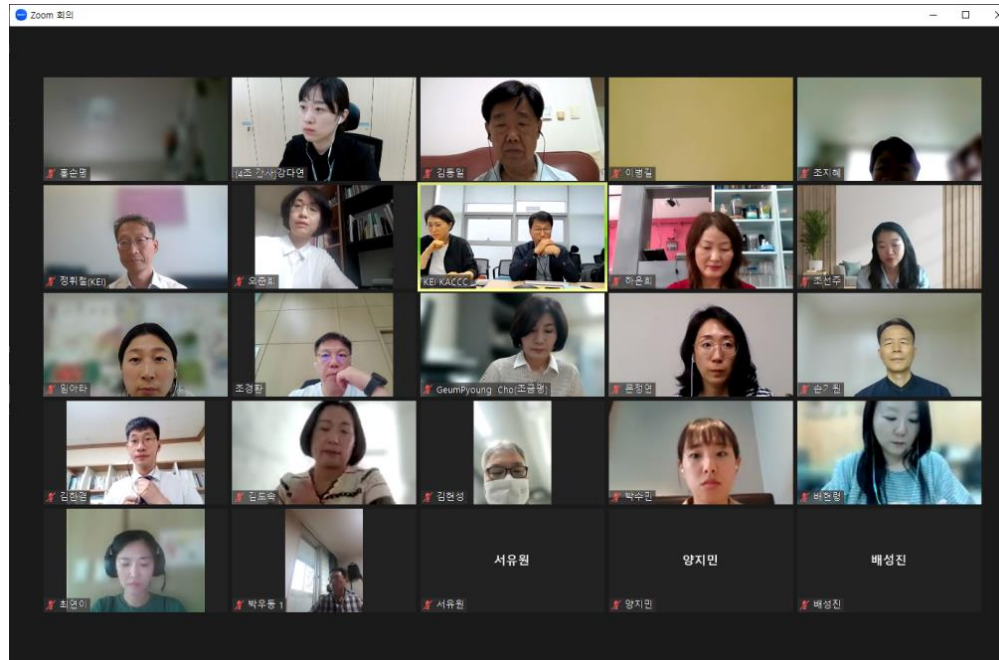
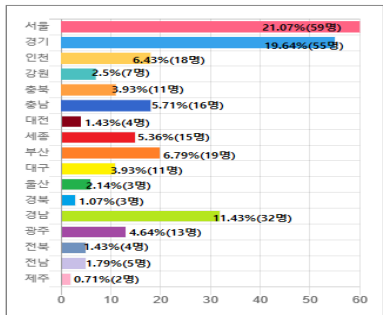
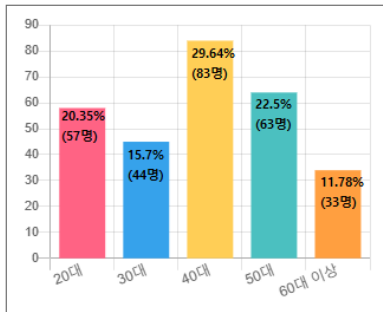


*Participation in NAP M&E has led to a higher understanding of NAP.....*  
*Through the activities of the Citizen Panel, there has been an increased understanding of climate crisis adaptation and adaptation policies.....*



## 2. Adaptation Academy

- Through basic education on climate crisis and adaptation policies, encourage awareness of climate crisis and promote linkage to adaptive actions.
- The goal is to inform the general public, not to deliver specialized lectures, by providing a fundamental understanding of 'adaptation.'
- (Activity Period) July 2023 - November 2023 (approximately 5 months)
- (Target Participants) 100 citizens aged 19 and above who are interested in adaptation."



# 제1기 기후위기 적응 아카데미 교육생 모집

6.1부터 ~ 6.8 까지

환경부와 KDI 국가기후위기적응센터는 '제3차 국가 기후위기적응대책(21~25)', 제3기 국민평가단의 구성·운영에 앞서 보다 많은 국민에게 양질의 기후적응 교육 기회를 제공하고, 적응정책의 국민 체감도를 높이기 위하여 '제1기 기후적응 아카데미' 교육생을 모집하오니, 관심 있는 국민 여러분의 많은 참여 바랍니다.

**모집 대상**  
기후위기 적응에 관심있는 만 19세 이상 국민

**모집 기간**  
2023. 6. 1.(목) ~ 6. 8(목) 13:00 까지

**모집 인원** 100명

**교육 내용**  
기후위기 및 기후적응에 대한 전반적인 내용

**교육 기간 / 교육비**  
2023. 7. ~ 2023. 11. (약 5개월) / 무료(온라인) 교육

**선발 기준**  
연령, 성별, 거주지역, 자원동기 등을 고려하여 선발

**지원 방법**  
환경부(www.me.go.kr) 또는 KDI 국가기후변화적응센터(kacc.kei.re.kr) 누리집을 통해 신청

**발 표**  
2023. 6. 28 KDI 국가기후위기적응센터 누리집 공고 개별 통보

**향후 계획**  
- '2023 기후위기 적응 그림 공모전' 국민심사 참여  
- '제1기 기후적응 아카데미' 교육생 중 선발된 50인은 '제3차 국가 기후위기 적응대책, 제3기 국민평가단' 활동

**관련 문의**  
KDI 국가기후변화적응센터 ☎ 044-415-7424

|
|

공고 확인

# 3. Adaptation Illustration Contest

- This initiative aims not only to hold a contest but also to consistently contribute to enhancing public awareness of adaptation.
- The contest received 535 submissions in 2022 and 548 in 2023.
- Following the award, the artworks were displayed in locations accessible to the public, enabling a greater number of people to become aware of the concept of adaptation through exposure.



A detailed poster for the '2023 기후위기 적응 그림 공모전' (2023 Climate Change Adaptation Illustration Contest). The poster features a colorful illustration of a yellow car and a person. It includes the following text:

**기후위기! 지구인 생존방법?!**

함께 그려가는 기후위기 극복! ~8.30까지

**2023 기후위기 적응 그림 공모전**

**공모부문**  
**작품 그림 모은 그림\***  
 \* 손그림, 일러스트, 디지털 아트 등 자유형식

**공모주제**  
**기후위기에 적응한 모습 또는 중요성**  
**답은 그림**  
 <참고 주제>  
 기후위기가 심각해짐에 따라 우리의 생활은 어떻게 달라져야 할까?(면적 100평)  
 기후위기 적응 방법 자유 주제  
 기후 변화와 관련된 자유 주제 등

**참가대상**  
**전 국민 누구나** \* 단체 참가 불가

**접수 및 문의**  
 KEI 국가기후위기적응센터 홈페이지 접수  
 (https://kacc.kel.re.kr)

**접수 일정**  
 2023. 5. 22(화) ~ 2023. 6. 30(금) 자정까지  
 \* 작품 디자인 및 제출신청서 양식

**시상 내역**

구분	시상	대상부	최우수상	우수상	장려부
작품	최우수상 1명	1명	1명	1명	1명
응답	최우수상 1명	2명	2명	2명	2명
응답	최우수상 1명	2명	2명	2명	2명
응답	최우수상 1명	2명	2명	2명	2명
응답	최우수상 1명	2명	2명	2명	2명

**시상식 및 수상작 전시**  
 2023. 8. 28(월) ~ 2023. 9. 1.(금)  
 \* 2023 UNFCCC 제48주년 시상식 수상작 전시 대영

환경부 KEI 국가기후위기적응센터

A large poster for the '2022 Climate Change Adaptation Illustration Contest Republic of Korea'. It features a grid of 17 numbered illustrations (1-17) showing various climate change adaptation scenarios. The central text reads:

**2022 Climate Change Adaptation Illustration Contest**  
**Republic of Korea**

The 'Climate Change Adaptation Illustration Contest' is a drawing and illustration competition hosted by the Ministry of Environment in collaboration with KEI KACCC. Our primary goal is to promote public awareness and understanding of climate change adaptation.

In 2022, the contest received 535 submissions. After thorough evaluation, 17 artworks were selected from both general and children's categories and recognized with Grand Prize, Excellence, and Encouragement awards. These 17 artworks are the ones that were awarded.

Ministry of Environment KEI Korea Adaptation Center for Climate Change

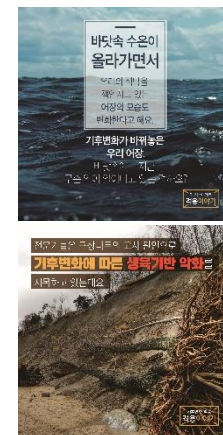
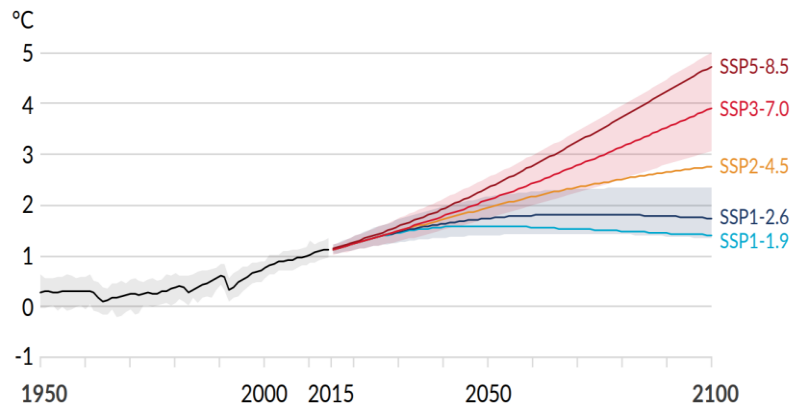


# To get a variety of stakeholders into NAP process...

- We need to consider various ways of delivering information.
- It is essential to facilitate ongoing discussions and sharing of climate change and adaptation issues in daily life



Scenario	Near term, 2021–2040		Mid-term, 2041–2060		Long term, 2081–2100	
	Best estimate (°C)	Very likely range (°C)	Best estimate (°C)	Very likely range (°C)	Best estimate (°C)	Very likely range (°C)
SSP1-1.9	1.5	1.2 to 1.7	1.6	1.2 to 2.0	1.4	1.0 to 1.8
SSP1-2.6	1.5	1.2 to 1.8	1.7	1.3 to 2.2	1.8	1.3 to 2.4
SSP2-4.5	1.5	1.2 to 1.8	2.0	1.6 to 2.5	2.7	2.1 to 3.5
SSP3-7.0	1.5	1.2 to 1.8	2.1	1.7 to 2.6	3.6	2.8 to 4.6
SSP5-8.5	1.6	1.3 to 1.9	2.4	1.9 to 3.0	4.4	3.3 to 5.7



# THANK YOU

JIYOUNG SHIN <SJIRANG@KEI.RE.KR>

