

Republic of Korea's
**Adaptation
Efforts**
(Focused on Local)

KEI Korea Adaptation Center for
Climate Change (KACCC)

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I . Introduction

1. Adaptation Cycle

- **Adaptation Cycle in UNFCCC**



* UNFCCC: <https://unfccc.int/topics/adaptation-and-resilience/the-big-picture/what-do-adaptation-to-climate-change-and-climate-resilience-mean>

II. National Efforts on Adaptation

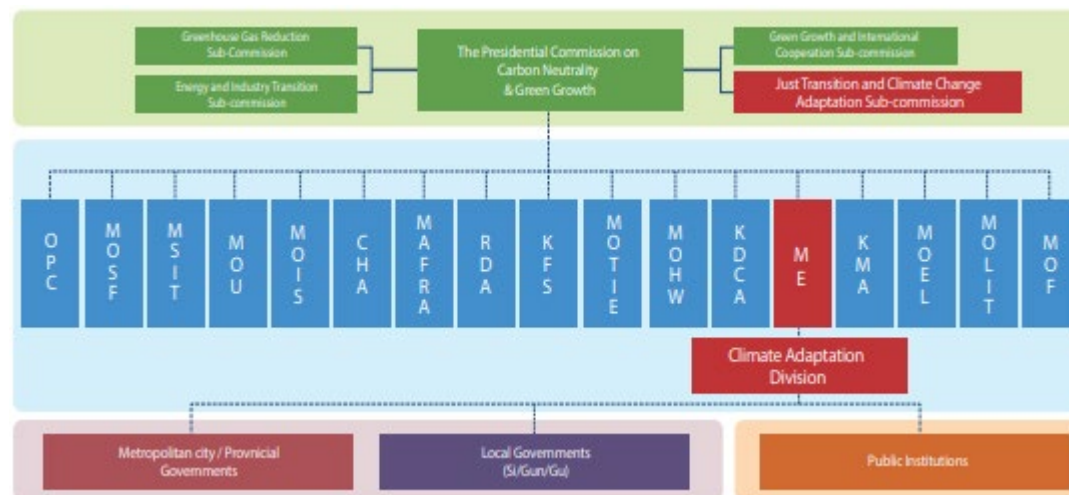
1. Scientific Assessments

- **Regular publication of the Korean Climate Change Assessment Report:** Korean Climate Change Assessment Report 2020
- **Development of integrated impact evaluation of climate change:** MOTIVE (Korean Model Of inTEgrated Impact and Vulnerability Evaluation of Climate Change)
- **National Climate Change Risk Assessment:** To establish the Third NCCAP(2019)
- **Web-based Vulnerability Assessment Tool to Build Climate Change Adaptation Plan (VESTAP):** To support sub-national governments' adaptation plans

II. National Efforts on Adaptation

2. Adaptation Governance

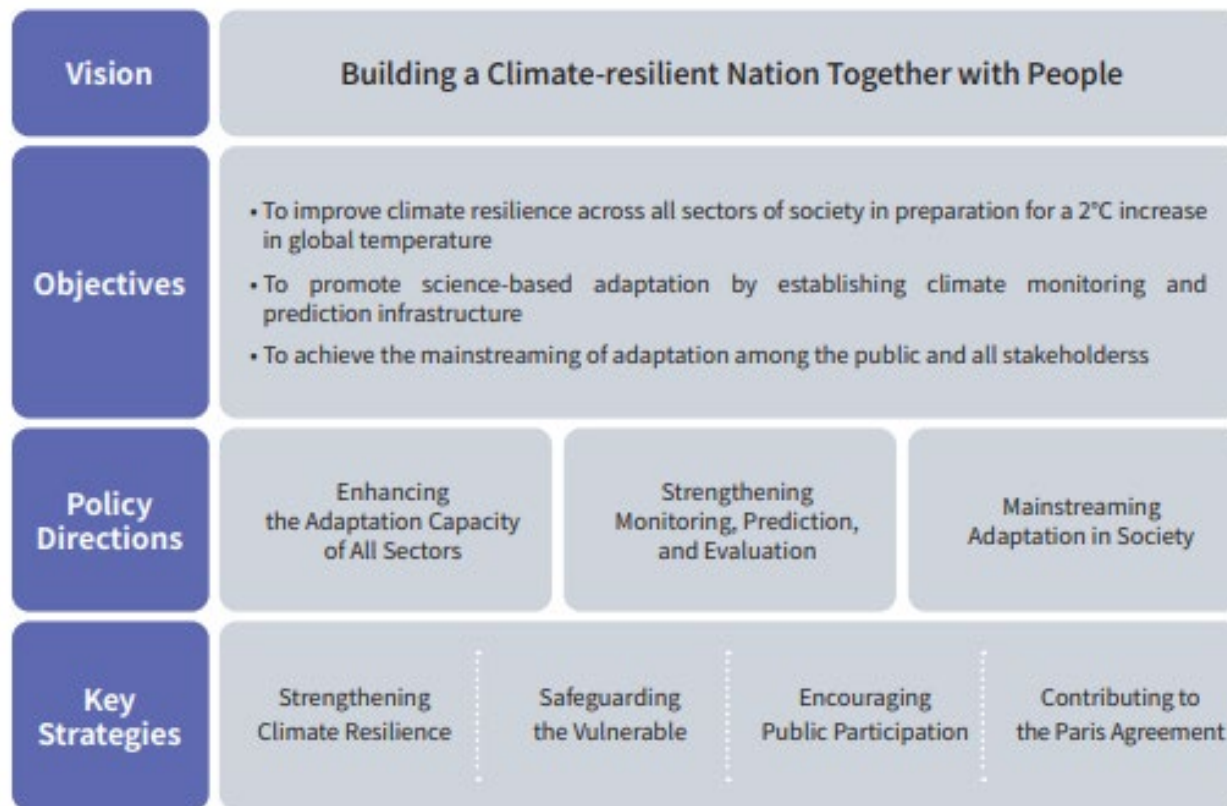
- **Legal Framework:** Framework Act on Low Carbon, Green Growth(2010) ⇒ Framework Act on Carbon Neutrality and Green Growth for Coping with Climate Crisis(2021)
- **Institutional Arrangements**



II. National Efforts on Adaptation

3. National Adaptation Plan in Republic of Korea

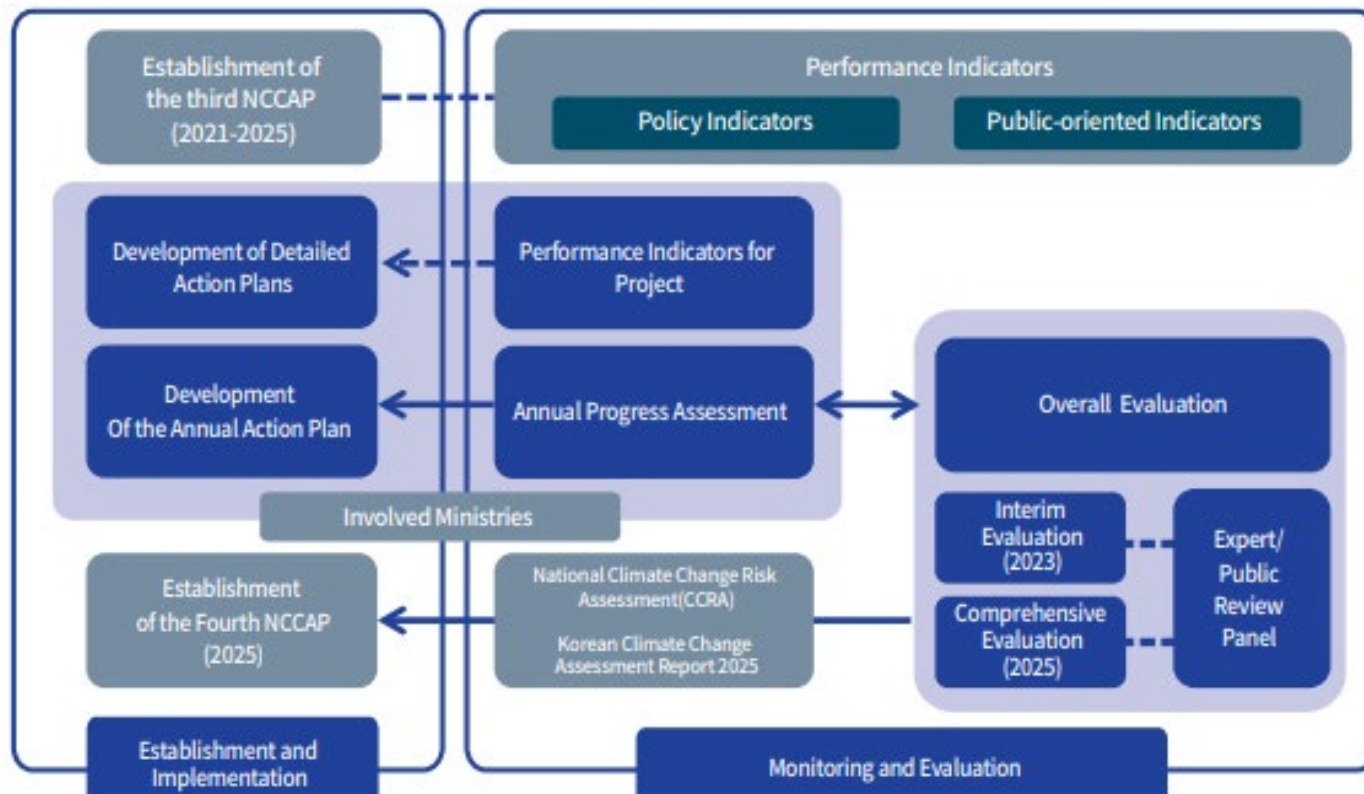
- 3rd National Climate Change Adaptation Plan

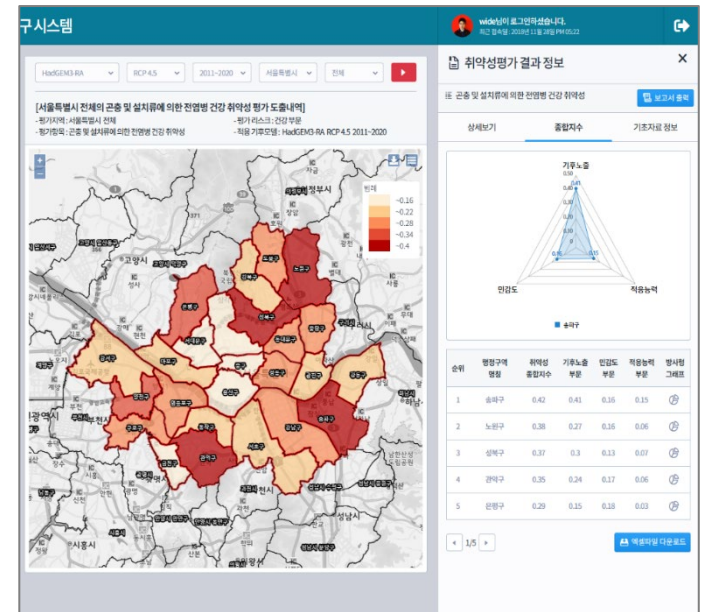


II. National Efforts on Adaptation

3. National Adaptation Plan in Republic of Korea

- Comprehensive Framework of the Third NCCAP

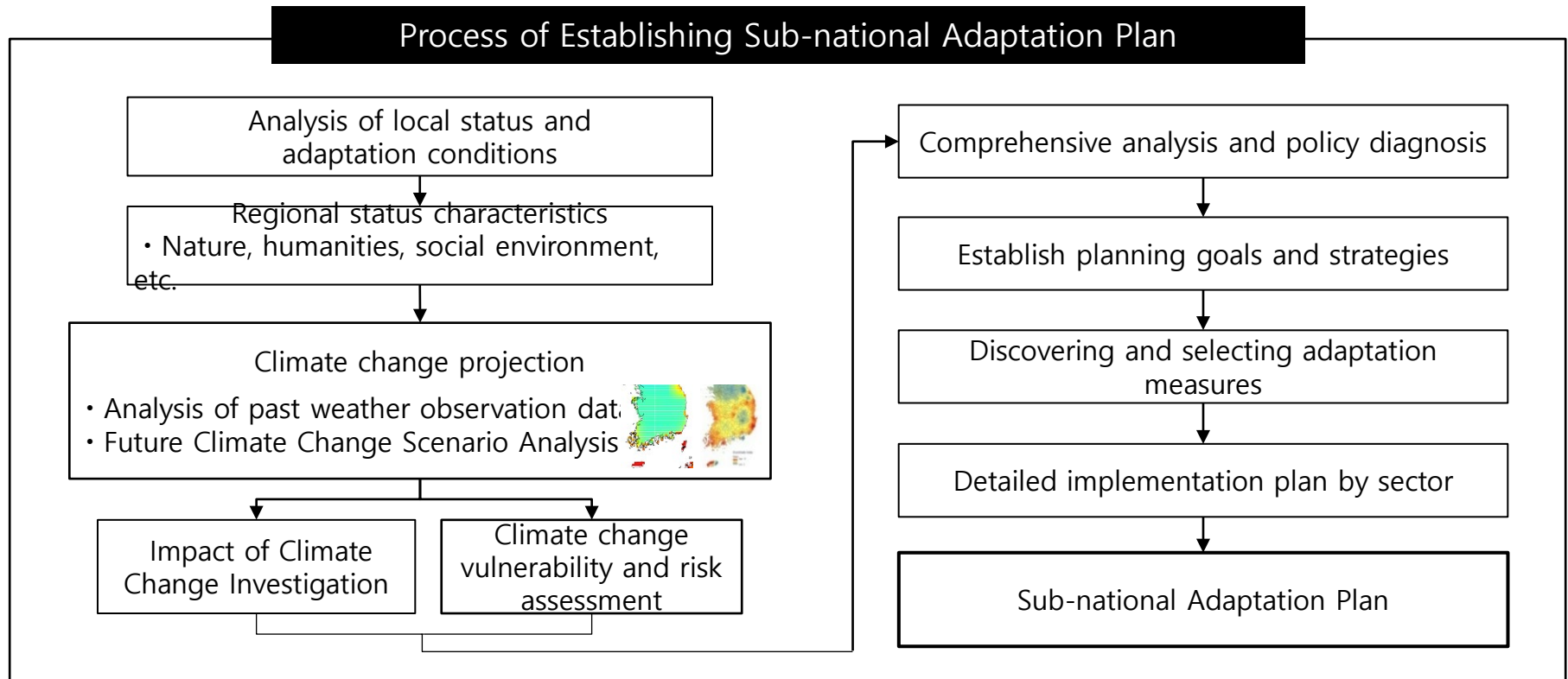




III. Sub-national Efforts on Adaptation

2. Sub-national Adaptation Plan

- Sub-national governments(17 metropolitan cities and provinces and 226 city/county/district local governments) are mandated to establish and implement adaptation plans.



III. Sub-national Efforts on Adaptation

2. Sub-national Adaptation Plan

- 17 Regional And 226 Local Adaptation Plan

	17 Regional(Metropolitan Cities and Provinces)	226 Local (city/county/district local governments)
Current Plan	• 3rd Regional Climate Change Adaptation Plan (2022-2026)	• 2nd Local Climate Change Adaptation Plan(2018-2026)
M & E	• Annual self-assessment and report to the Presidential Commission on Carbon Neutrality and Green Growth	• Monitored and assessed on an annual basis

III. Sub-national Efforts on Adaptation

2. Sub-national Adaptation Case

- **Cooling Daegu: A Comprehensive Plan to Mitigate Heat Wave Damages**

- ✓ Presented by: Daegu Metropolitan City - one of the hottest cities in the ROK
- ✓ A holistic medium-to-long-term strategy (2020-2024) addressing heatwaves and the urban heat island effect
- ✓ Key Actions:
 - "AnsimHaiSo" - a disaster management platform application with integrated heatwave response facilities
 - Implementation of heat mitigation facilities, including cutting-edge cooling fog technology
 - Citizen-driven initiatives, exemplified by the widespread use of sunshades



Screenshot of Ansim Hai So



Cooling Fog Facilities



Free Rental Sunshades

IV. Consideration and Way Forward

- Capacity of Local Governments
- Time and Resources Needed
- Linkage Between National and Local Efforts
- Engaging Leaders in the Process

Thank you!

For further information,

- **RoK's Adaptation Communication to UNFCCC:**
<https://unfccc.int/sites/default/files/ACR/2023-03/The%20Republic%20of%20Koreas%20Adaptation%20Communication.pdf>
- **Email to Ju Youn KANG:** jkang@kei.re.kr