

KMCRC

Global Leading Mekong-ROK
technological collaborative platform
in the water sector



About KMCRC

KMCRC is based on the Mekong-Han River Declaration adopted at the 1st Korea-Mekong Summit in 2019, Busan, the Korea-Mekong Water Resources Management Collaborative Research Center is a non-profit organization established in 2021 to promote cooperation in the water sector between Korea and Mekong.

The Korea-Mekong Water Resources Management Collaborative Research Center has established an academic-research-government network domestically and internationally to contribute to solve water problems in the Mekong region and support the Korean government's foreign policy.

Greeting

Hello. I am Jeong Kyeong-yun, CEO of the Korea-Mekong Water Resource Management Collaborative Research Center.

The Mekong region continues to face water issues such as drought, flooding, and deteriorating water quality as a result of climate change and the development of upstream and downstream water resources. Due to the fact that the problems caused by climate change cannot be solved by a single country or in a short period of time, it is crucial to keep the close cooperation between countries.

The Korea-Mekong Water Resources Management Collaborative Research Center is attempting to resolve the Mekong River basin's water crisis by leveraging Korea's expertise in water management and a multilateral cooperation system with Mekong region countries.

As the Mekong region's global leading technical cooperation platform for water, we are actively collaborating with domestic and international networks spanning industry, academia, research, and government,

and strengthening our professional capabilities through interdisciplinary human exchanges in sectors such as economy, society, and culture. Numerous research and cooperation projects are being conducted as a result of this to enhance the technological capabilities of Mekong region countries and to address water issues in the Mekong River basin.

As relations with the dynamically growing countries of the Mekong region have become more important, the Korea-Mekong cooperative relationship has been upgraded to the 2019 Summit. In line with government policies, we will contribute to resolving water issues in the Mekong region as a response to global crises, and take the lead in promoting the Korea-Mekong cooperative relationship through active exchanges and performance sharing with local organizations.

We look forward to your support for the KMCRC's performances and challenges.

정경윤

2011

2011

Oct The 1st Korea-Mekong Foreign Ministers' Meeting (Seoul) (beginning of cooperation)
- Adoption of the Han-Mekong River Declaration on the establishment of a comprehensive partnership between Korea and the Mekong for mutual prosperity

2019

Nov The 1st Korea-Mekong Summit(Busan)
- Adoption of 「Han River and Mekong River Declaration」
⇒ Background for establishment of Korea-Mekong Water Resource Management Collaborative Research Center

2020

2020

Jan Establishment Korea-Mekong Water Management Joint Research Center
Dec Meeting of promoters in Incorporated Association (Ministry of Environment & K-water) and inaugural meeting

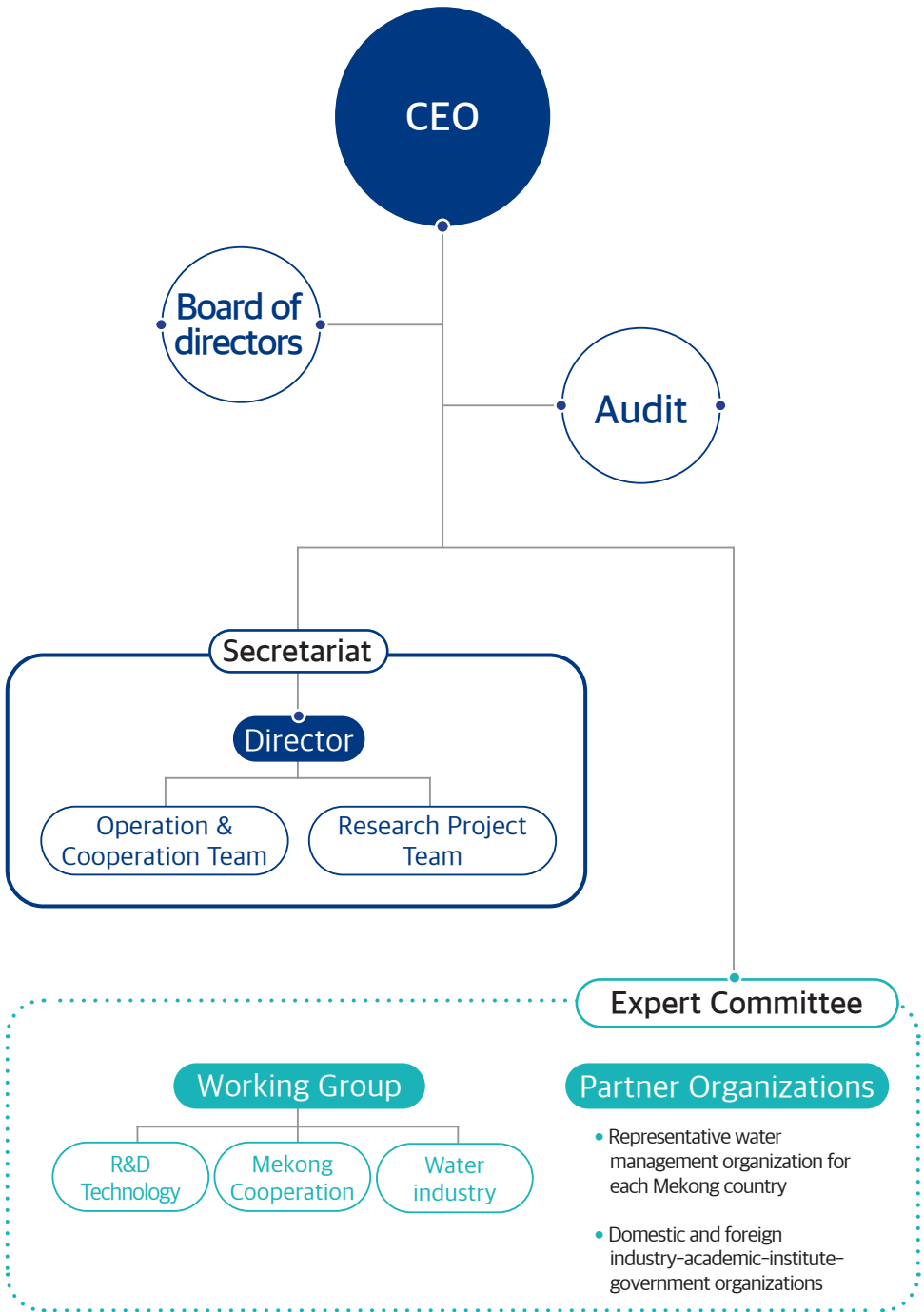
2021

Feb Issuance of corporate incorporation permit (Ministry of Environment)
Mar Completed the establishment of a corporation
May [Ministry of Environment] Strategies for water business development and collaborative research platform development in the Mekong region. (150 million won per year)
Jul The 1st Board of Directors and General Meeting
Nov (GKC) The 10th anniversary symposium of Mekong-ROK cooperation
- Subject: Recent Water Issues in the Mekong Region and Korea-Mekong Cooperation
Dec [KOICA] Integrated water management PMC service in the Mekong Delta region of Cambodia (670 million won / 2 years)

2022

Mar Participated in the 2nd Asia International Water Week and the 9th World Water Forum

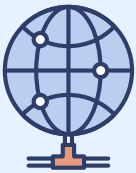
Organization



Vision

**Global Leading Collaborative Platform
dedicated to water issues for the Mekong Region**

Goal&Role



Expanding and strengthening the network

Reinforcement of a comprehensive network of industry, academia, research institutes, and government related to the water sector and the Mekong Region



Enhancement of professional competency

Enhancing expertise in the Mekong region based on multidisciplinary cooperation



Promotion of research and collaborative projects

Promotion of research and collaborative projects to solve national water issues in the Mekong region



Information providers for water resources

Performing the role of a water resources information provider to cope with climate change



**Global Leading
Mekong-ROK technological
collaborative platform
in the water sector**

Expansion and Enhancement of the Network

Partnership



Strengthen cooperation

- Network formation through agreements with internal and external partners
- Activation of communication channels for cooperation with local organizations
- Expand cooperation networks with international organizations, local organizations, and major donors

Spread cooperative performance

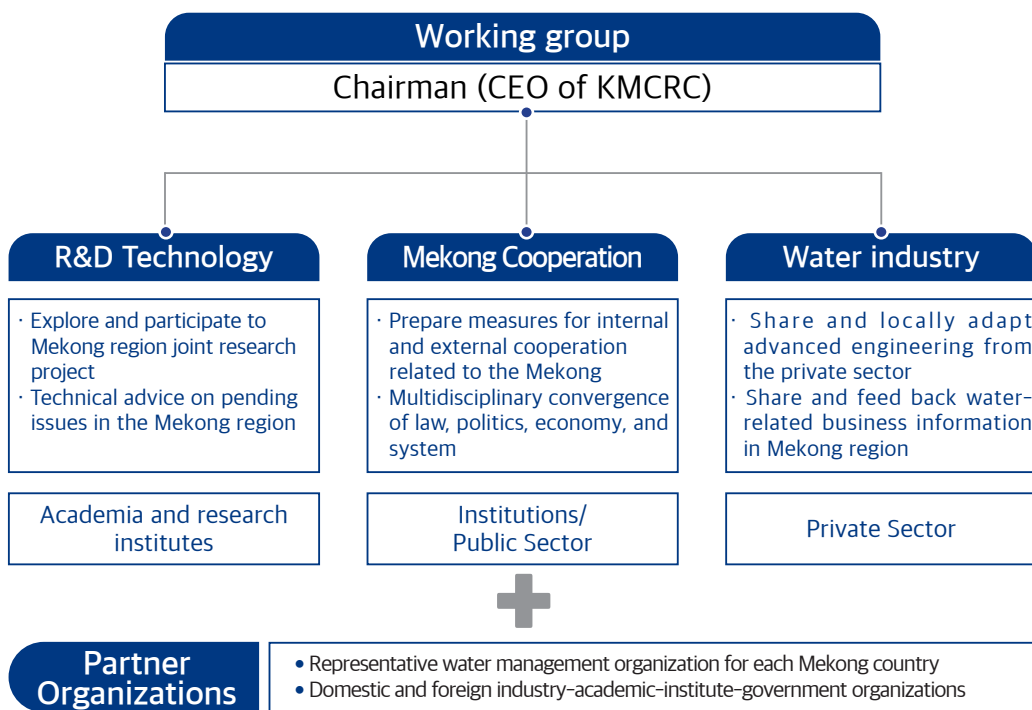
- Participate in and support for international water-related events such as World Water Forum (WWF) and Asia International Water Week (AIWW)
- 「Korea-Mekong International Water Forum」 (to be launched in November 2022)
- Discover and expand new projects in the Mekong region based on domestic and overseas networks
- Government support for foreign policy toward the Mekong region
 - Support for the Korea-Mekong Summit, the Korea-Mekong Foreign Ministers' Meeting, the Basic Plan for National Water Management, etc.

Improvement of professional competency

Enhancing expertise in the Mekong region based on multidisciplinary cooperation

1 Composition of Expert Committee

- Role** • Sharing information and networks, promoting joint projects
- Effect** • Contributes to securing water management technology in Mekong, establishing cooperative strategies, and promoting projects.
- Plan** • To be expanded to include local specialized agencies in Mekong and a global coalition consultative body



2 Activating knowledge and competency exchanges

- Establishment of implementation basis for 「Exchange/Joint Researcher System (planned in 2025)」 to strengthen project capacity related to Mekong region
- Regularization of 「Mekong Region Expert Invitation Seminar」

Research and Collaborative Projects

The Korea-Mekong Water Resource Management Collaborative Research Center is a leading global platform for water resources management technology in the Mekong region, and is promoting various research and collaborative projects to strengthen the technology capabilities of countries in the Mekong River basin and solve water issues. In order to solve water issues in the Mekong region and cope with the climate change, we plan to strengthen the technical advisory base by securing, analyzing, and sharing information on local water resources.

Projects

Water Data Utilization and Capacity Building in the Mekong Region



- **Order** Mekong Institute
 - **Period** 3years('19.10~'22.10)
 - **Budget** 1 million USD (Korea, (Korea-Mekong Cooperation Fund (MKCF)), US (Ministry of State) USD 500,000 each)
 - **Purpose** Contribute to solving water problems such as floods and droughts in the Mekong region by combining Korea's water management technology with American satellite and water resource data analysis technology
 - **Contents**
 - Satellite-based water resource data generation and utilization, repair/hydrological analysis
- Technology development

 - K-water & NASA → Generation and monitor the water resources data
 - K-water & USACE → Pilot construction of repair/slucice gate model
- Empowerment

 - Training of local practitioners in Mekong countries
 - Help to strengthen Mekong national water resource management capacity
- **Major partners** US NASA (National Aeronautics and Space Administration), USACE (United States Army Corps of Engineers)



A study on strategies for advancing into the Mekong basin water industry and establishing a research cooperation platform

- **Order** Ministry of Environment
- **Period** 1year('21.05~'22.05)
- **Budget** 1.5million won(Ministry of Environment)
- **Purpose** Establishment of mid-to-long-term operation plan and strategy for establishing research cooperation platform for Korea-Mekong Water Resources Management Collaborative Research Center through strategic survey on the status and strategy of water industry in the Mekong region
- **Contents**
 - Survey on the background of the establishment of a consultative body in Mekong area and the status of activities
 - Analyze the status of Mekong region by country and sector and present prospects
- **Future plans** Develop a strategy for establishing a platform for Korea-Mekong Water Resource Management Collaborative Research Center and a road map for expanding into the domestic water industry.

Research and Collaborative Projects

Establishment of MP for Integrated Water Resource Management in Mekong Delta, Cambodia



- **Order** KOICA • **Period** 2years('21.12~'23.12) • **Budget** 650 million won(KOICA ODA)
- **Purpose** To increase agricultural productivity and income by reducing floods and droughts in the Mekong Delta region of Cambodia, to revitalize the local economy and to improve the lives of local residents
- **Contents**
 - Establishment of flood defense MP and Pre-F/S in the Mekong Delta region on the Cambodia-Vietnam border
 - Implementation of local expert competency reinforcement and training



Mekong Basin IWRM and Climate Adaptability Promotion Project

- **Order** UNDP • **Period** : 36months('22~'25) • **Budget** 2.4 billion won(MOD ODA)
- **Purpose** To develop integrated water management capabilities such as floods and droughts caused by climate change in the Mekong Basin and to improve adaptability to climate change
- **Contents**
 - Evaluation of water-related vulnerabilities and establishment of master plans.
 - Watershed governance and integrated water resources management approach, as well as business development for climate adaptation

Feasibility study service for sewage treatment improvement in Kota Bogor, Indonesia



- **Order** KEITI • **Period** '21.05~'22.03 • **Budget** 400 million won(KEITI)
- **Background** Increased demand for environmental improvement project support and insufficient infrastructure for water and sewage facilities
- **Contents**
 - Investigation/analysis of sewage generation and management status in the target area
 - Review, analysis, and supplementation of reports on Sewerage Improvement Feasibility Study in Bogor City

To be implemented

- (ADB e-Asia) Consultants for Preparation of the River Basin Improvement Program ; Modernization of the National Water Resources Information System Project (18 months/\$500,000)
- (Korea-ASEAN Cooperation Fund) Training of Trainers (ToT) and Regional Program for the Capacity Building on Basin Management in ASEAN (5 years/2.2 billion won)

Completed (KIND, LH) Discovery of smart city pilot project in Vietnam's Mekong Delta and Pre-FS (9 months / 440 million won)

Completed (Ministry of Land, Infrastructure and Transport) Basic concept and pilot project for a new smart city in Indonesia (1 year / 490 million won)

Water Resources Information Provider

1 Background

- Difficulty in securing basic data in the field of water when carrying out local projects
 - Insufficient sharing of business results for previously implemented ODA and water resource-related overseas projects
 - Difficulty in accessing hydraulic and hydrological analysis data based on climate change scenarios for climate change response projects
- ⇒ Need to establish a water information portal in the Mekong region for effective provision of water resource information and continuous sharing of performance.



Difficulty in securing basic data in the water industry of the target country for water-related companies to enter overseas markets



Insufficient sharing of business results for previously implemented ODA and water resource-related overseas projects



Difficulty in accessing hydraulic and hydrological analysis data based on climate change scenarios for climate change response projects

The establishment of a global water information portal is necessary to ensure the effective provision of water resource information necessary for domestic companies to enter international markets and to facilitate continuous performance sharing.

2 Construction Plan

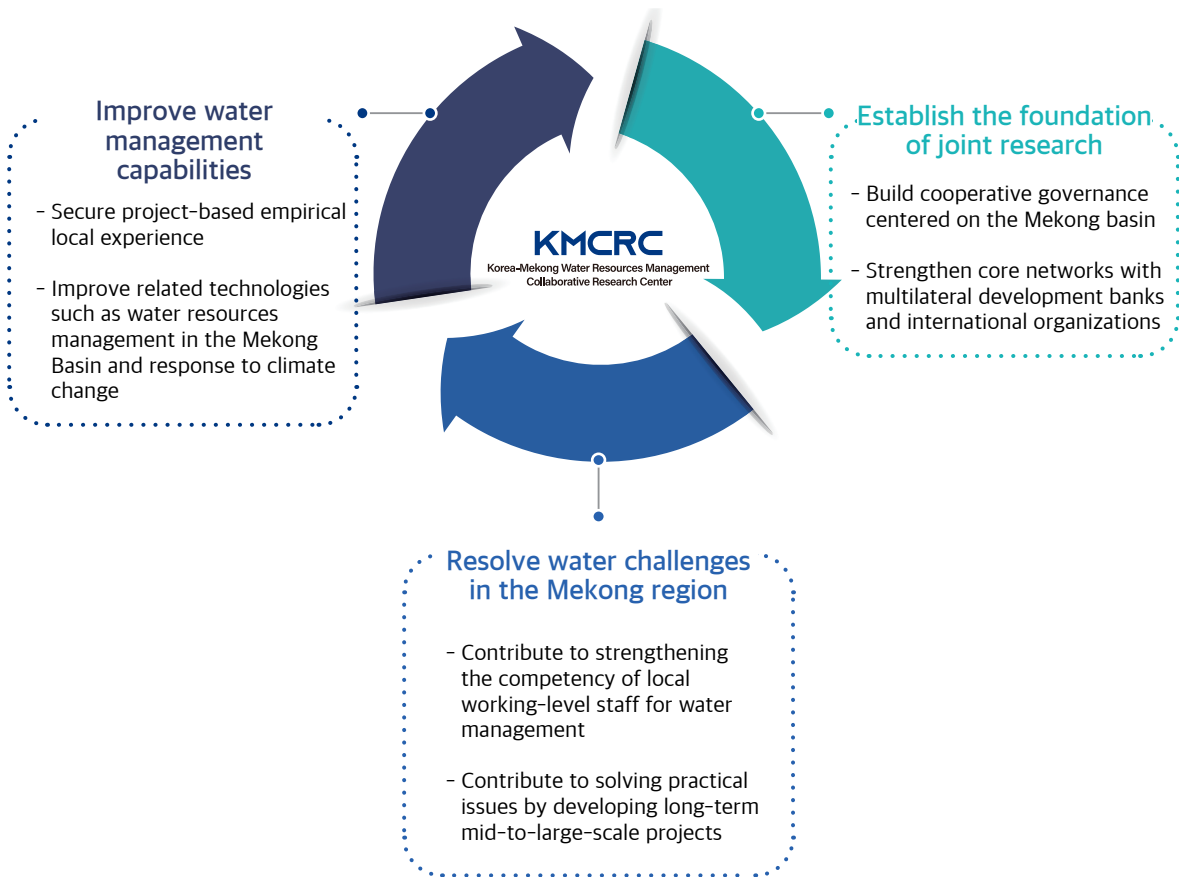
- Provide basic data such as global topography, geological data, water resources, environment, water supply, and meteorological data
- Provide climate change scenarios and numerical analysis (hydrology, water quality, etc.)
- Provide systematically organized past project performance and share new project information
- Establish a water information cooperation system between continents and countries

3 Effects

- Improve the convenience and accessibility of water resources data
- Prevent overlapping investment in projects through systematic arrangement and provision of past project performance
- Contribute to the Mekong region's capacity for climate change adaptation and water resource management through the use of climate change scenarios.

Strategic goal

Establishing a virtuous cycle for solving water challenges in the Mekong region



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