



**KGID
2025**

**Green Growth:
The Path to
Sustainable Jobs**

Knowledge Exchange for Digital & AI Transformation in Water Sector

Min-Gyu Kim, Senior Manager
K-water Academy



- ◆ A hub of educating experts in water management established in 1982
- ◆ Learning program for in-house staffs, local government officials, water management companies and international participants
- ◆ High quality educational contents based on **55 years of water management technologies** and **40 years of capacity building experiences**
- ◆ Comprehensive learning modules covering from source to tap across the entire water process, leveraging K-water's resources and expertise

Practical Learning Experiences



Lectures & Workshops



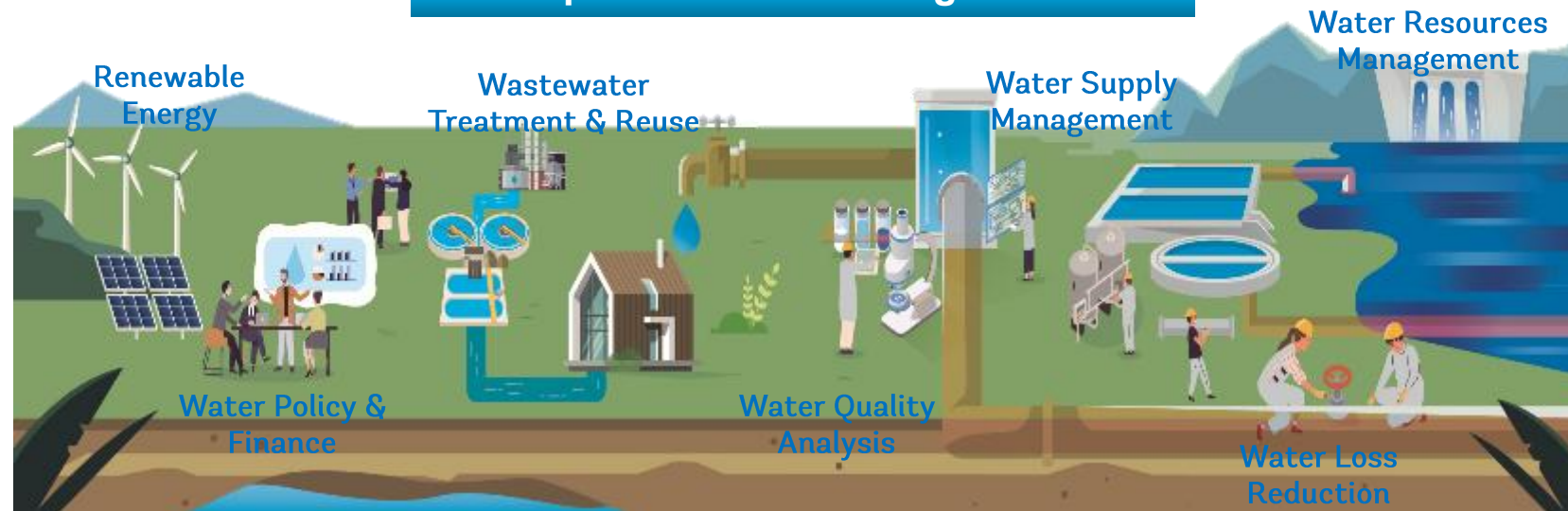
Study Visits

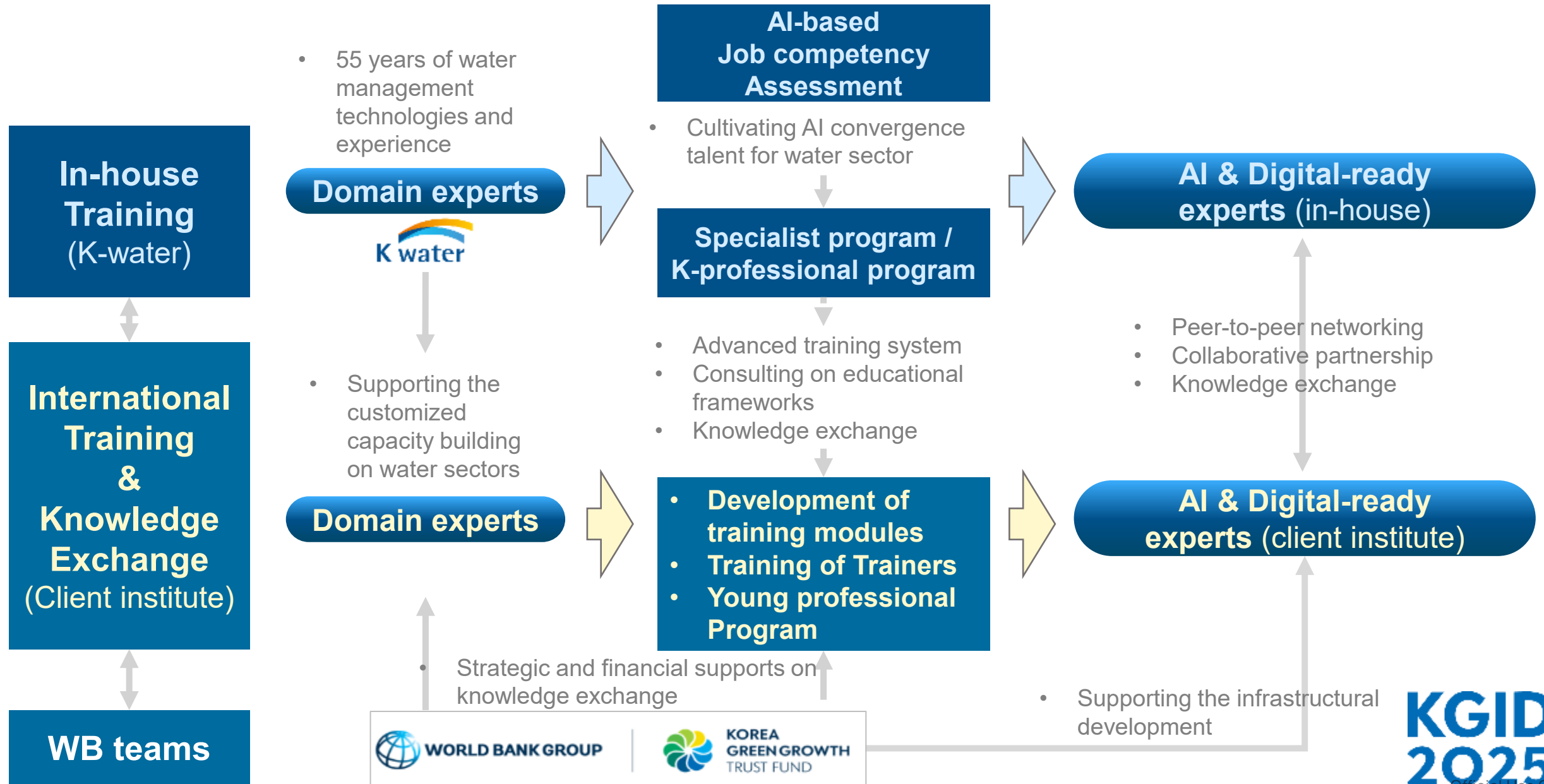


Practical Exercises



Comprehensive Learning Modules





- ◆ K-water's flagship job training course
- ◆ Unique program among public companies in Korea
- ◆ 100% based on K-water's strategies to succeed in business
- ◆ Focuses on fostering talents who will take the lead in future cutting-edge businesses and new growth engines in preparation for the rapidly changing environment (AI, Digitalization)



"91 Courses 1,097 Professionals"

- ✓ Water works (321 people)
- ✓ Water resources (216 people)
- ✓ Management, common fields, etc. (297 people)
- ✓ Renewable energy, IT, Estate, etc. (263 people)

Playing a central role in advancing
K-water's core business by
cultivating problem-solving experts

In-house Training K-professional program

Educational structure & contents

Smart(AI) WTP / SWNM

"Strategic projects & Focused training"

Self-directed learning focused on problem-solving through project execution



4-level specialized training over 180 hours

B I A P
Basic Intermediate Advanced Professional



"B"-Basic		"I"-Intermediate		"A"-Advanced			"P"-Professional	
March	April	May	June	July	August	September	October	November
Cyber, Reading, Lecture		Lecture, Field Trip		Lecture, Workshop, Task, Presentation, Mentoring			Advances Case study	
(40h)		(40h)		(60h)			(40h)	

Unleash Award (16th Oct 2024)

- ◆ K-water was the **first Korean company to win the Award**, and the excellence and expertise of K-water HRD were recognized worldwide. (Awarded for the **K-Professional program**)



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A global hub for water sector capacity building and knowledge exchange since 1997 (27 years)

➡ A network of about 6,000 alumni from 122 countries who have completed more than 400 courses.

Top 5 Alumni Countries



International Education
Invitation Training
Commencement



Launch of Twinning
Program (ADB, USAID)



WaterLinks Awards
Excellence Award
Winner



Water Education
Consulting Launch
(Bangladesh, Uganda)



KOICA Global Training
Commissioned
Education
Commencement



ADB Education
Cooperation Project First
Contract Awarded
(Laos, Bhutan)



K-water Academy
Online Channel Launch



Expansion of Water
Education Consulting
(Uzbekistan, Pakistan)

◆ Support solutions to real-world issues in client's local context

Training Contents

- Integrated Water Resources Management
- Water Resources Infrastructure Development
- Water Supply & Sanitation O&M
- NRW & Pipe Network Management
- Renewable Energy Development & Management
- Water Quality Analysis & Lab Management
- Smart Water Management & Digitalization
- Smart Water City Planning & Development
- Climate-resilient Water Resources Management/Water Supply System

Tailor-made Program



Program design based on the needs of a client institute
* Analyze training field and target group level

Implementing lectures, practices and field trips with instructors who are experts in each field



Program connected with follow-up tasks such as writing AP and PCP

Include various cultural experiences such as home visiting and sightseeing



Consulting & Technical Assistance

On-the-Job Training, Evaluation/Advise for Local Facility O&M Improvement

Training of Trainers, Basic-concept for Client's Capacity Building System

Knowledge sharing, Technical supports for Knowledge-driven Solutions

Water Resources & Environmental Management

WB Uganda, WB Jordan
WB Water GP



- ✓ Training modules development, Training of Trainers (Uganda, '20-'22)
- ✓ Lake-wise WQ improvement, Discussions with diverse stakeholders (East Africa, '23)

Water Utility Digitalization

WB Water Digital



- ✓ Knowledge exchange and discussions on WSS sector digitalization
- ✓ Government officers, Enterprises & WB staffs of Interest in developing countries (Asia-Pacific, '24-)

Expert Exchange for WSS & WRM

WB Kenya, WB Angola



- ✓ Knowledge exchange and discussions on water resources management (Angola, '25-'26)
- ✓ Knowledge exchange on small WSS facilities (Kenya, '25)

Renewable Energy - Floating Solar Panel

WB KPOK



- ✓ Knowledge exchange on floating solar panel applications ('24)

Project Name

Uzbekistan: Capacity Building & Water Academy

- Term : 8 June 2022 – 31 May 2024 (24 months)
- Implementing : WB Uzbekistan (KGGTF) / Consulting Firm: K-water Academy
- Client : Uzsuvtaminot JSC (National WSS Utility in Uzbekistan)

Baseline Survey & Gap Analysis



Training of Trainers

- Education
- Career
- Work Period
- Other strength

Selection Criteria

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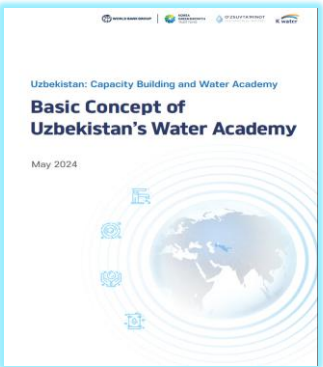


Online Interview

Selection of Trainer Candidates

Suggestions of Capacity Building Model

Trainings Prep.



- Objectives & Key considerations;
- Training modules, procedure, unit & facilities;
- Professional certifications & Partnership, etc.

* Image Source: K-water-WB (2022~2024)



Practical Learning
(Lecture, Study visits, Hands-on)



Teaching Skill Learning



Online Training

Hybrid Training

Project Name

Uzbekistan: Smart Non-revenue Water Management and Resilience

Funding Source

WB KGGTF (World Bank Korea Green Growth Trust Fund)

Client Institute

Uzsuvtaminot JSC & Suvtaminot LLC

Enhanced Institutional Capacity of UJSC

in Human Resources Development and Technology Adoption

Task 1

Strengthening a Water Solution Academy

- Ensuring the sustainability of the established Water Academy
- Training module development
- Longterm strategic plan (draft)

Task 2

Young Professional Development

- An innovative internship program
- Providing practical experience
- Peer networking

Task 3

Private Sector Partnership Facilitation

- Promotion of private sector collaboration and cooperation

Our vision Toward a Sustainable Global/Regional Learning Platform

Stepwise approach for building the Sustainable Global Learning Platform

Phase 1 *ADB project ('21-'24)

Completed

Understanding local context & Fundamental capacity building

- Local diagnosis, enhanced problem awareness
- Customized on-site & invitation training programs
- Collaborative workshops

Phase 2 *WB KGGTF project ('22-'24)

Completed

Establishment of a Water Academy for the target country

- Water Academy concept design
- Outlining training modules
- Training of Trainers (ToT)

Phase 3 *WB KGGTF project ('25-'26)

On-going

Ensuring the sustainability of the Water Academy

- Development of actual training modules
- Internship for young professionals
- Strengthening the partnership

Phase 4 *WB KGGTF project ('26-)

Proposed

Regional Expansion for neighboring countries

- Expansion of the Water Academy platform
- Cross-border knowledge transfer & exchange
- Regional network and partnership

Establishing Central Asia Regional Learning Platform (an example)

- ◆ Cooperative and collaborative partnership among World Bank, K-water, and Client institutes



**Enhancement of the AI&Digital-ready capacity of client institutes
based on the successful knowledge exchange platform**

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Thank you

