



# DAEGU's Water Industry & City to City Cooperation

**POWERFUL DAEGU**  
Full of Freedom and Vitality  
자유와 활력이 넘치는 파워풀 대구

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01

# Overview of Daegu



# Overview of Daegu



Population

**2.5 million**



Area

**885km<sup>2</sup>**

# Overview of Daegu

## New Growth Engines of Daegu



Labor-intensive  
industry (Textile)



ICT-based, Eco-friendly  
High-tech City



Semi-  
conductors



Urban Air  
Mobility



Healthcare



“ABB”  
AI, Blockchain,  
Big data



Robotics



# Water in Daegu's History

**Past**

**BOD 196 ppm (1983)**

# Water in Daegu's History

Present

BOD 2.6 ppm (2013)



# Water in Daegu's History

2006

## Silver Prize

from the Asia Pacific Forum  
for Environment and  
Development



2014

## Ranked No. 1 in

Nationwide Water Quality  
Improvement

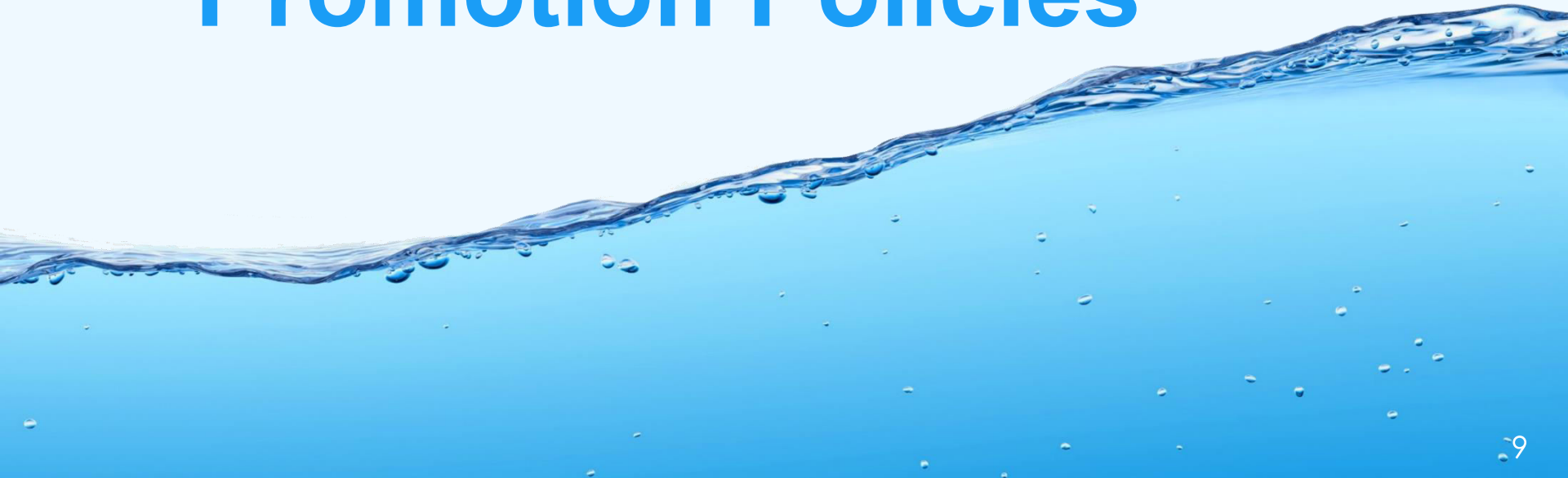






02

# Water Industry Promotion Policies





# Korea's Water Industry Fostering Strategies

## VISION

Global water industry  
powerhouse by 2030

## GOALS



Improving  
water welfare



Water companies'  
revenue increase



20% of export  
(4% in 2016 -> 20% in 2030)

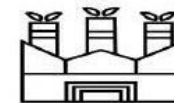
## KEY STRATEGIES



Enhancing  
technological  
competitiveness



Creating new  
markets

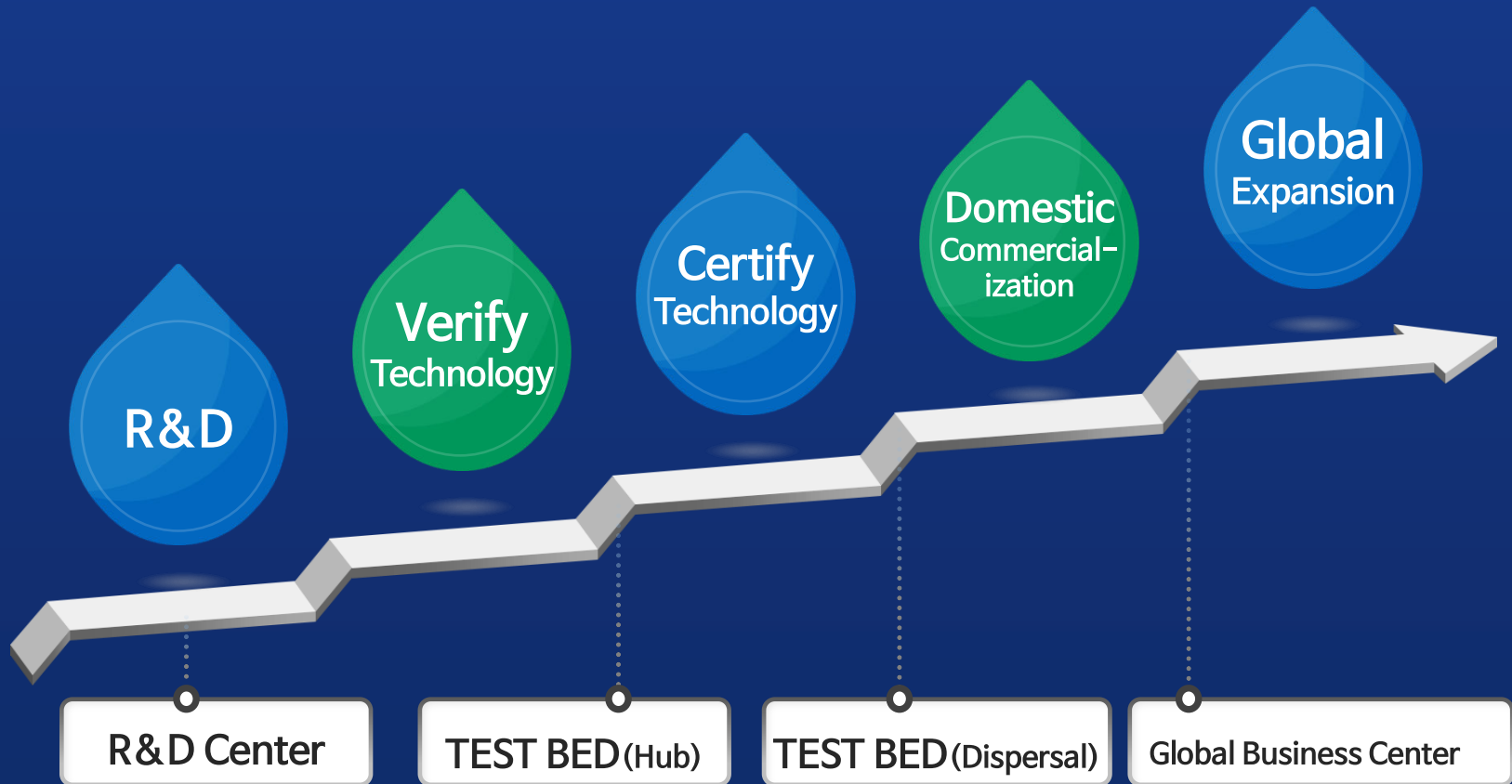


Innovative water  
industry  
infrastructure

# Korea Water Cluster (KWC)

## Establishment of a One-Stop Support System

which can fulfill the entire process of enabling the Korean water industry to enter the global market



# Korea Water Cluster

Location

Daegu National  
Industrial Park

Area

**650,000**m<sup>2</sup>  
(777,393yd<sup>2</sup>)

Cost

USD  
**300 million**

Period

**2015~2019**

Demonstration  
Facilities (Test-beds)

Industrial complex

Industrial complex

Water Industry  
Promotion Facilities

Korea Institute for  
Water Technology  
Certification  
(KIWATEC)

# Korea Water Cluster

## 1. Water Industry Promotion Facilities

### Global Business Center

- PR center, conference rooms, offices, dorms, convenience facilities

### Water Campus

- Startup incubators, library, lecture & research rooms, convenience facilities

### Water Convergence R&D Center

- Water industry organizations, laboratories(academia & businesses), research centers, convenience facilities, seminar rooms

### Korea Institute for Water Technology Certification

- Certification of safety, quality and performance of water technologies and products
- Development of standards



# Korea Water Cluster

## 2. Demonstration Facilities (Test-beds)

### Overview

Demonstration Zone
<b>Line 1</b> Standard processes
<b>Line 2</b> Promising technologies

User-customized Zone
Companies conduct testing with their own customized settings of facilities and processes

Outdoor Testing Zone
<b>Comprehensive pipe network testing</b> Installing various types of pipes, valves and many other auxiliary facilities

Water Purification

Capacity (m <sup>3</sup> /day)
<b>2,000</b> (1,000×2 lines)

Total (m <sup>3</sup> /day)
<b>3,000</b>

↓  
To facilitate the development of pipe network maintenance technologies

Sewage

<b>1,000</b> (500×2 lines)
----------------------------

<b>1,000</b>
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Waste water

<b>1,000</b> (500×2 lines)
----------------------------

<b>1,000</b>
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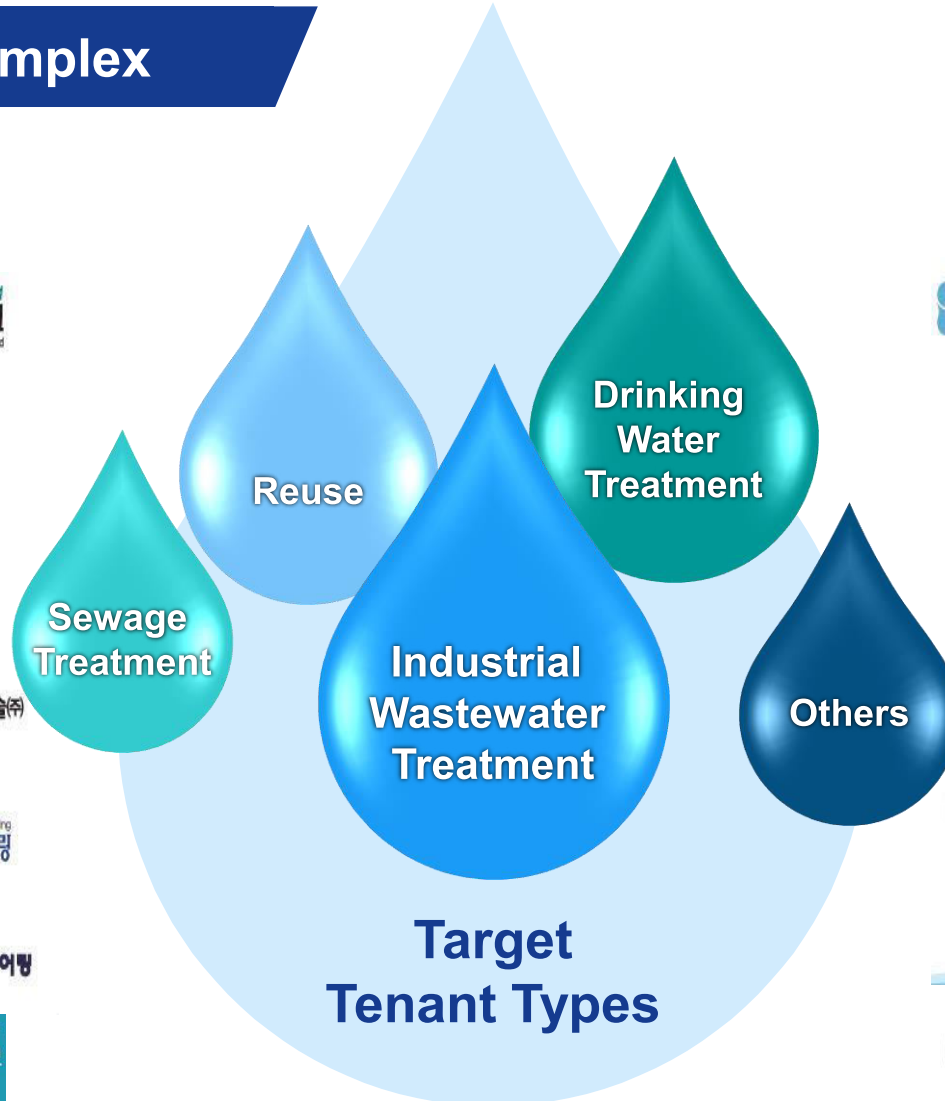
**Outdoor testing zones**  
Flexible operations according to demand from companies installing large-scale facilities and others

Reuse

<b>1,000</b> (500×2 lines)
----------------------------

<b>2,000</b>
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## 3. Industrial Complex



LOTTE CHEMICAL

환경시생 전문기업  
(주)지이테크  
Globe Environment Tec, Co., Ltd

For our next generation  
Enbio Cons

주식회사 문창  
MOONCHANG

첨단환경기술 선도기업  
ECOSET (주)에코셋

The Value of Trust  
MIDNI  
주식회사미드니

High Partner  
samjIn

ATT  
www.att.co.kr

ILCHUN  
INDUSTRY

(주)그린텍  
Pump & System Engineering

PPI 평화

주식회사 우진  
www.mixings.co.kr

KED 주식회사 케이디

KFT 한국유체기술(주)

주식회사 금강

진행워터웨이

ROYAL  
ROYAL PRECISION INDUSTRY CO., LTD.

Yusung engineering  
(주)유성엔지니어링

SJM 주식회사 신정기공  
SHINJUNG MACH. CO., LTD  
http://www.vco.co.kr

(주)화도케미칼  
PERASUN, PERASUN, 모수발이, 연봉

(주)에이치엔티  
HUMAN&TECHNOLOGY

SUNTECH (주)선펙엔지니어링

제이텍  
J.TECH CO., LTD

태영필트레이션시스템

ansen

WMS  
WATER MANAGEMENT SYSTEM

GID 한결테크닉스

# Demonstration Sites in Daegu

## 4. Multi-location Demo Sites





# Daegu's Water Industry Support System

**Strengthening  
technological  
competitiveness of  
water tech companies**

R&D support



**Support for participation  
in overseas exhibitions**

Opportunities for promoting  
products and technology in the  
global market

**Capacity Building**

Education & training programs  
for water experts

**Support for the growth of  
local water companies &  
KWC companies**

Prototype manufacturing  
Product purchase by public  
organizations



03

# Global Water Partnership & Network



# Strengthening Global Water Network & Partnership

Participation in prestigious global water events



Exchanges and cooperation with the world water cities



Mikkeli



Fryslân



Montpellier



Shaoxing

Hosting international water events



# International Water Events in Dec 2023



KOREA  
INTERNATIONAL  
WATER WEEK

## Korea International Water Week

- Development of a global community focusing on addressing water-related challenges
- Programs: Water Leaders' Round Table, World Water Challenge, Water business Forum, Expo, etc.



## World Water Cities Forum

- Collaborative partnership among world water cities
- Objectives:
  - Identify water-related problems of cities
  - Co-create solutions
  - Jointly track progress



INTERNATIONAL  
WATER INDUSTRY  
CONFERENCE

## International Water Industry Conference

- Under the theme of “**Carbon Neutrality in Water Cycle**,” this year’s edition will be a joint event with the **Water-Energy Nexus Conference(WEN)**

**Creating an environment that provides clean, safe and sufficient water to humanity**

# MOU PARTNERS

A HUB CITY FOR THE GLOBAL

WATER  
INDUSTRY **DAEGU**



**FRANCE**

FOUR-PARTY MOU AMONG  
DAEGU, MONTPELLIER, DITEC  
RESEARCH INSTITUTE, AND  
AQUA VALLEY (SEPTEMBER 2019)



**FINLAND**

MOU ON WATER INDUSTRY  
COOPERATION BETWEEN  
DAEGU AND MIKKELI  
(NOVEMBER 2021)



**CHINA**

JOINT MOU ON WATER  
INDUSTRY PROTECTION  
BETWEEN DAEGU AND  
XIAOXING (APRIL 2016)

**DAEGU**



**USA**

MOU ON THE WATER  
INDUSTRY BETWEEN  
DAEGU AND MILWAUKEE  
(SEPTEMBER 2015)



**THE NETHERLANDS**

MOU ON WATER INDUSTRY  
COOPERATION BETWEEN DAEGU  
AND  
FRIESLAND (SEPTEMBER 2017)



**THE PHILIPPINES**

MOU ON WATER INDUSTRY  
COOPERATION BETWEEN DAEGU  
AND METROPOLITAN  
WATERWORKS & SEWERAGE  
SYSTEM (SEPTEMBER 2018)



Thank you

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