

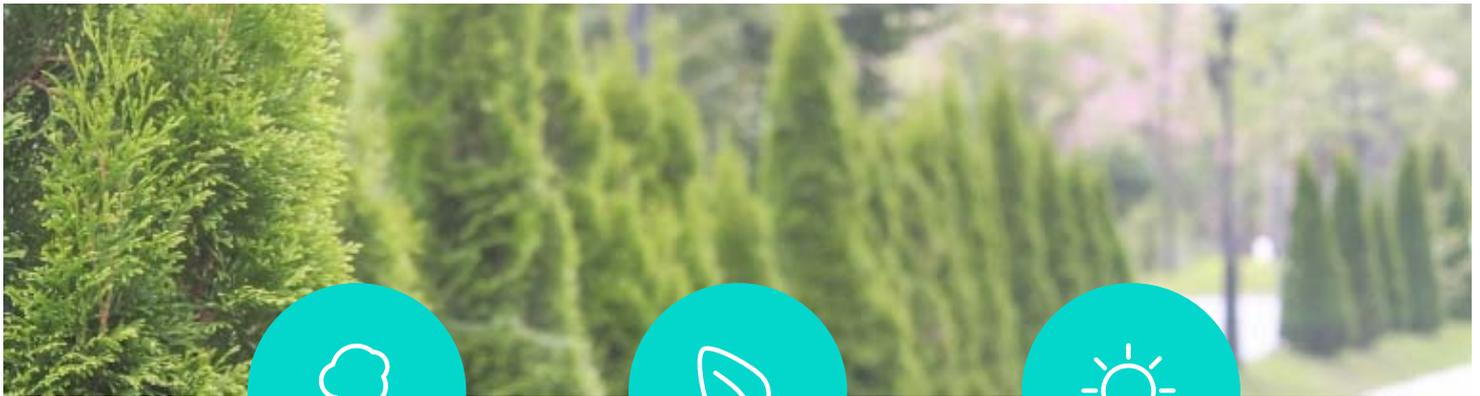


# KOREA'S CHALLENGES FOR WATER INDUSTRY FOSTERAGE

KOREA  
WATER AND  
WASTEWATER WORKS  
ASSOCIATION

November 10, 2016

## CONTENTS



BACKGROUN  
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VISION  
&  
CHALLENGE  
S



ABOVE ALL...

# BACKGROUND

The present of Korea's Water Environment & Water Industry

## Water Stress

Korea is under the "sever water stress" by high water usage

## Vulnerable to Drought

74% of water resource in Korea is "Dam Water"

## Stagnant Domestic Market

Low profit structure cause of price war

## Uncompetitive companies

Price competition market structure makes water companies not to concentrate on R&D

## Aging Facilities

Aging pipe networks and WTPs make "690billion ton of water loss" a year



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# VISION & CHALLENGES



Manpower



Field



Global Market

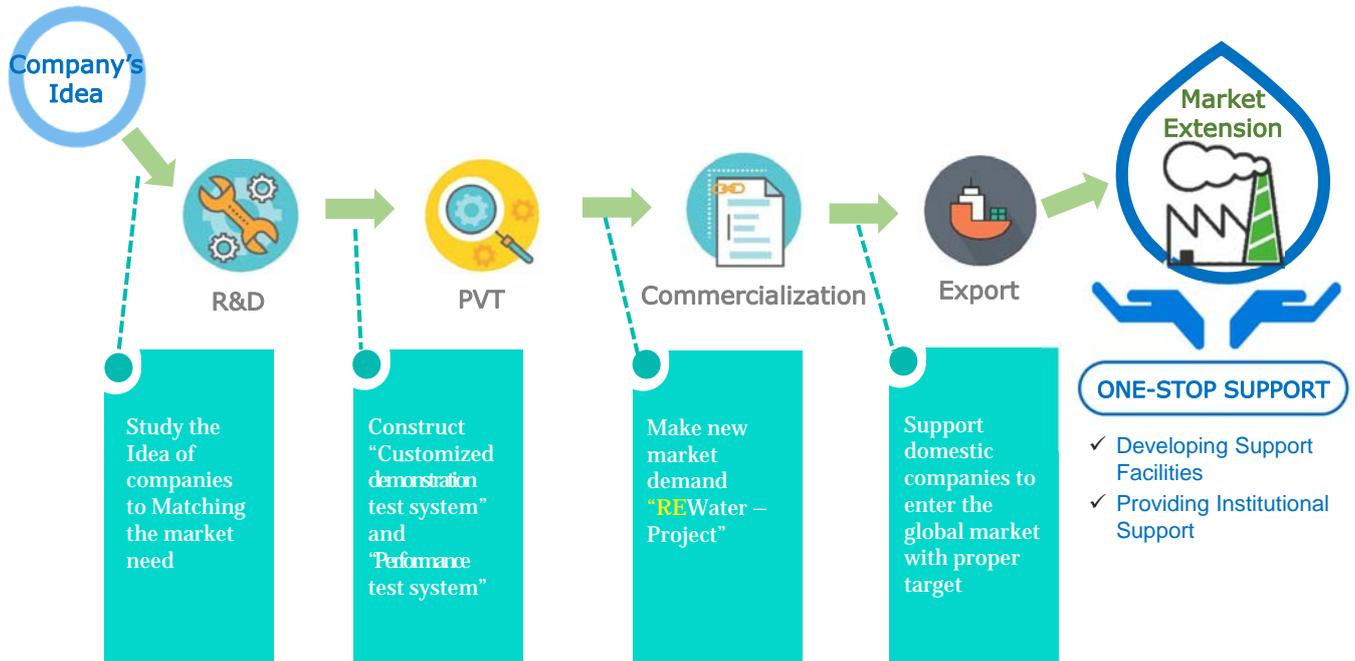


Profit Structure

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# STRATEGY & ROLE

From Idea to Market Creation, and the Role of Government



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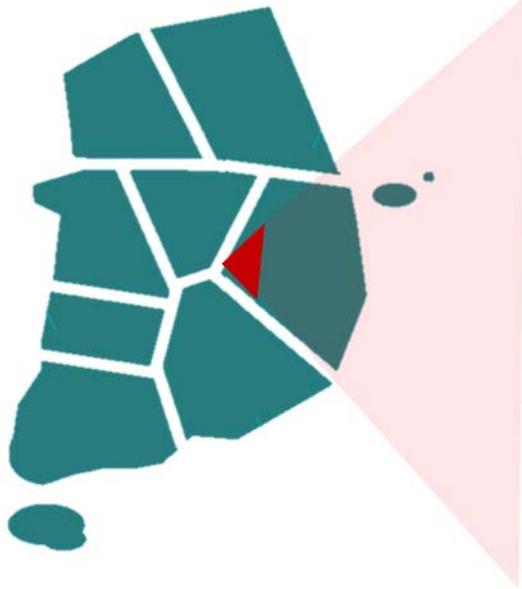


For One-Stop Support Service,

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# Korea Water Industry Cluster Project

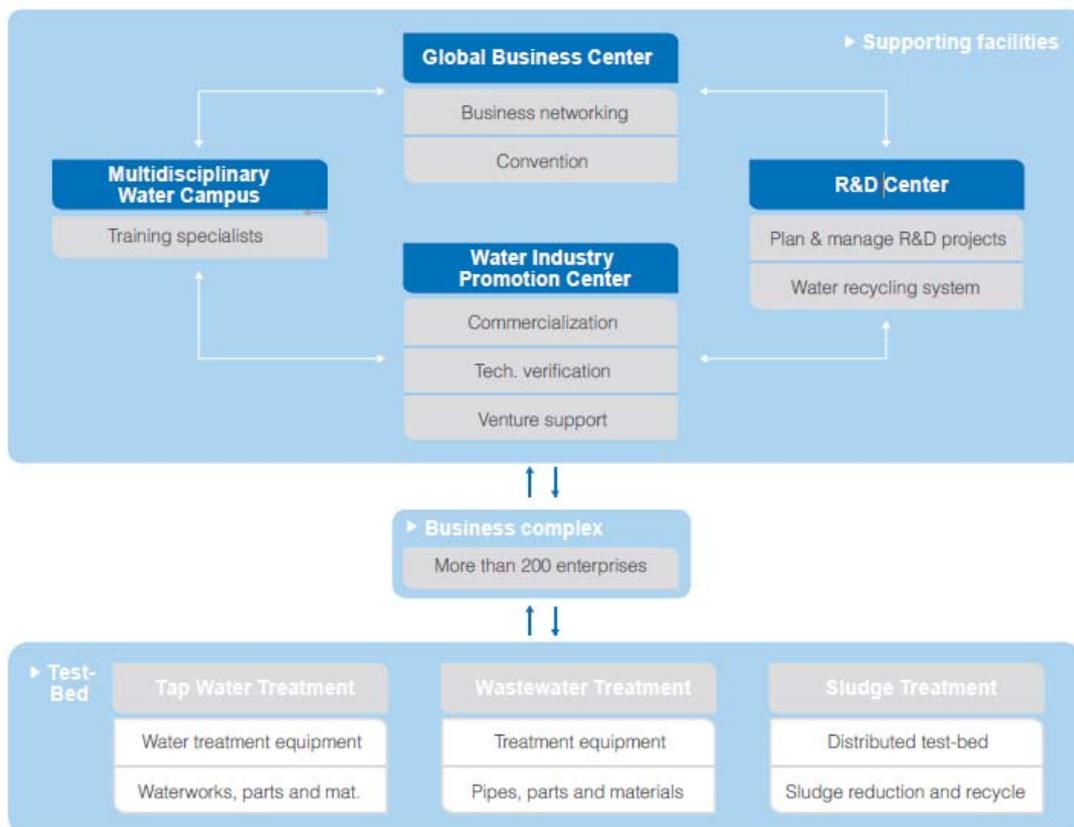
Water Industry Hub



Location	Within Daegu National Industrial Park
Period	2016~2018 (3 years or more)
Gross area	645thousand m <sup>2</sup>
Budget	313.7 billion won
Developed by	Ministry of Environment

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## Structure of Korea Water Industry Cluster



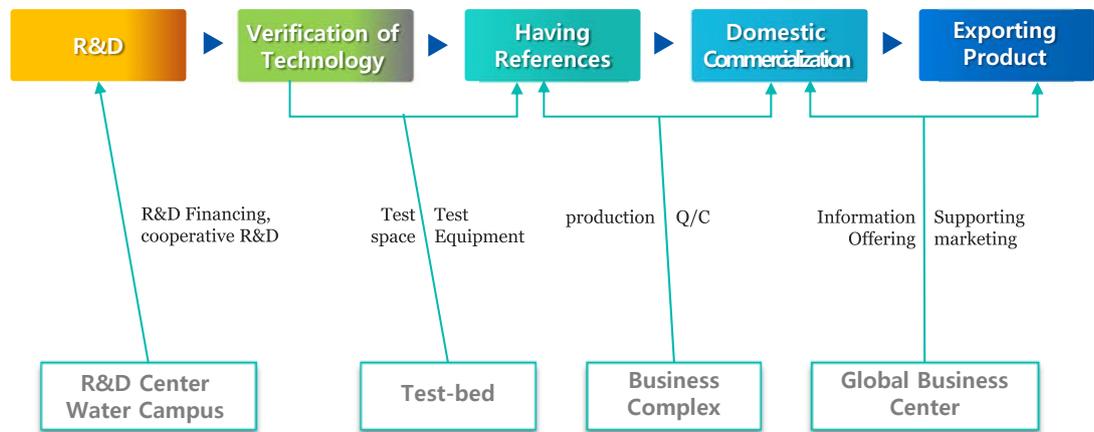
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# Purpose of Project

Sustainable supporting infrastructures



Water Industry Cluster



# Components of Water Industry Cluster

## Make one-stop service possible

**Test-bed**  
(80,000m<sup>2</sup>)

**Supporting Facilities**  
(64,000m<sup>2</sup>)

**Business complex**  
(503,870m<sup>2</sup>)

- Comprehensive water treatment TB (water, wastewater, pipeline)
- Water Industry Promotion Center
- Water firms are clustered
  - 100 big and middle sized firms
  - added value 280 billion won
  - 2,800 creation of employment (KDI, 2014)
- Global Business Center
- R&D Center
- Water Campus

# Components of Water Industry Cluster

**Test-bed**  
(80,000m<sup>2</sup>)

Supporting  
Facilities  
(64,000m<sup>2</sup>)

Business  
complex  
(503,870m<sup>2</sup>)

## Overview

- Developing new technology and securing references
- Building and advanced water and wastewater treatment base
  - ➔ Test-Bed(TB) : water, wastewater, reuse
- Verification of domestic technology
  - ➔ Supporting from the government
- Cooperation with National Industrial Park
  - ➔ Flexibility of operation and security of water quality

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# Components of Water Industry Cluster

Test-bed  
(80,000m<sup>2</sup>)

**Supporting  
Facilities**  
(64,000m<sup>2</sup>)

Business  
complex  
(503,870m<sup>2</sup>)

## Overview

- Operation of cluster and supporting system
- Handling whole mechanism of cluster(Control Tower)

### R&D Center

- Management of R&D
- Managing and supporting facilities

### Water Industry Promotion Center

- Cluster Operation
- Based on need analysis

### Water Campus

- Nurturing field-centered human resource
- Supporting R&DB environment

### Global Business Center

- Overseas Cooperation, Networking
- Exhibition, Advertisement, Marketing
- International meeting, Business Support

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## Overview

**Play a role as a circulation circle of water in cluster**

- Organic supporting system with integrated firms
- Self-contained System(Developed technology → product → business)
- Responsible for part of BWC(Blue Water Circle)

**Complex  
Introduction**

### Target Field of Business

- Purification, water related firms
- Wastewater treatment related firms
- Industrial waste water treatment related firms
- Sludge treatment and recycling firms
- Other water-related firms

# THANK YOU