





Company Overview

- 01 Introduction
- 02 ISTEC Mission & ESG
- O3 Business Areas [Piezoelectric ceramic devices]
- 04 Business Areas [Water management system]
- O5 Corporate Capabilities [Key personnel & R&D]
- 06 Past 30 years

COMPANY INFO

Summary

Company	IS Technologies
Establishment Date	Apr. 14 th , 1993
CEO	Gab Sang Yoo
Capital	28.1 billion Won
Employee	64 employees
R&D center	A company-affiliated sensor system research center was established in 1996
Main Products	Sensor, IoT communication device, Solution system, Platform
Business Location	Headquarters: 1602 and 1603, Building M, Songdo IT Center, 32 Songdo Gwahak-ro, Yeonsu-gu, Incheon (sarea 849.3m²) Factory: Room 301 and others, Kumho Ocean Tower, 583 Neungheodae-ro, Namdong-gu, Incheon (area 3,352.4 m²) Gangneung: 202-14, Science Complex-ro, Sacheon-myeon, Gangneung-si, Gangwon-do (Land: 4,055.2 m², Building: 2,011.4 m²)

Since 1993

30 years of experience in ultrasonic sensor, ICT convergency

Water management platform company

Business Location







Main Certifications



Innovative water company Ministry of Environment (2021)



GS1 Certification 18-0543

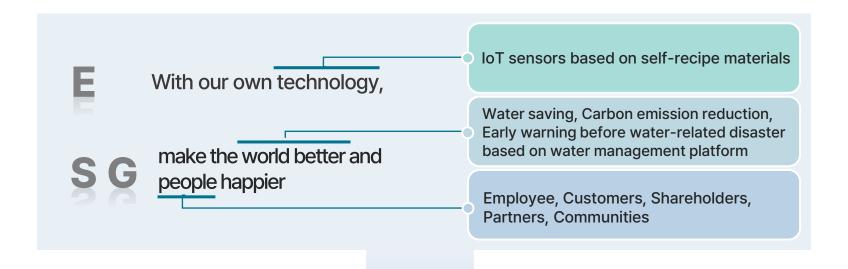


OneM2M platform ONEM2M0010



Innovative product
Ministry of SMEs
and Startups (2021)

MISSION With our own technology, make the world better and people happier



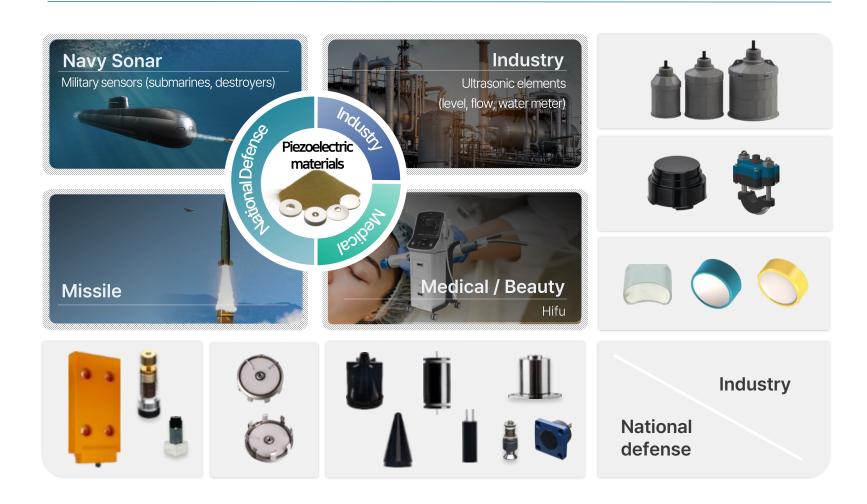
ISTEC's ESG

Based on our own sensor technology and platform,

We realize water saving and carbon emission reduction, and help acquiring time to prepare for water-related disasters,

so that the world becomes better and everyone including employees, customers, shareholders, partners, and communities becomes happier.

Manufacturing ultrasonic parts based on our own piezoelectric materials



Water management platform converging ICT, providing solutions to water shortages and water disasters caused by climate disasters such as persistent drought and localized heavy rain.



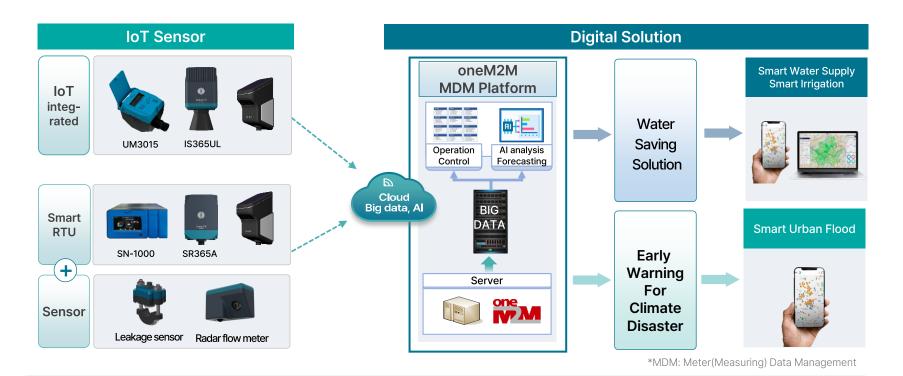
*SWM: Smart Water Management

Business Strategies

- 01_ ISTEC Strategies
- 02_ Water Management Platform Overview
- 03_ Water Saving Solution [Smart Water Supply]
- **04** Water Saving Solution [Smart Irrigation]
- 05_ Early Warning for Climate Disaster

Realizing a sustainable future based on the climate tech platform **VISION** Global No1. Water Management Platform Company **GOAL** 2025 IPO & Listing 2030 Reach 1000 billion won Global BM1 **Water Saving Business Climate Tech** Water supply management No 1. **Open R&D** platform / Irrigation system Company **BUSINESS** Integrated **Smart Water MODEL** thinking Management **BM2** Early Warning for Climate New **Platform Disaster Business Business** Urban flood early warning Growing into a climate tech company providing solutions to prevent disaster damage **Paradigm** Shift **Solution Platform** Digitalization Green Industry 😛

Water Management Platform Overview



I Differentiation of IoT Sensor

- Self production of piezoelectric materials with our own recipe
- 2. Low-power design (long lifespan of battery)
- 3. Self-recovery (temporary firmware errors)
- 4. Battery level check algorithm
- 5. Data reception rate improvement algorithm

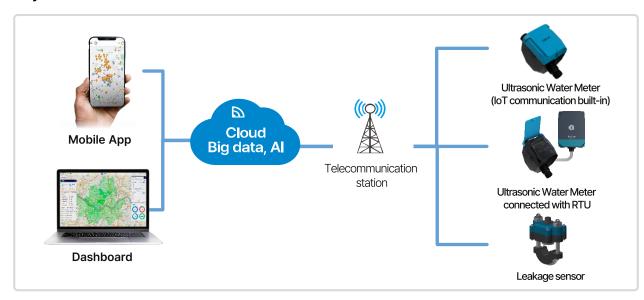
I Differentiation of Digital Solution

- 1. Acquiring openness based on oneM2M, IoT standard technology
- 2. Improving convenience through mobile-based system
- 3. Stable data collection, fast & accurate big data processing
- 4. In addition to data collection and monitoring, various data analysis possible
- Diversification of connected systems and information (water supply GIS, billing system)

Water Saving Solution [Smart Water Supply]

Smart Water Supply System

| System overview



Ultrasonic Water Meter

built-in

IoT communication

- Battery level check algorithm (patented)
- Leakage detection algorithm (patented)
- Communication interval change algorithm
- Innovative structure

Smart RTU





Low-power design Minimize data loss (distributed data transmission, data logging, self-recovery) Optimize network

OneM2M-based

(network reinforcement in weak signal area)

Mobile-based system



Work order through mobile app (manager → on-site worker)

Work efficiency through on-site support app (workrelated info registration, customer location based on GIS, device registration with QR)

| Achievement

Remote meter reading system in Seoul Up to 1million water meters '18 Conducted pilot project '23 Completed advanced system establishment '23 Operation in 32 local governments including Seoul Operating total 170 thousand of communication terminal devices '22 designation as innovative product Smart water meter, RTU, operation S/W '22 K-water performance sharing system Smart water meter '23 Innovative product pilot purchase business '22 Water meter overseas pilot project Vietnam' Haijeong City intelligent water management demonstration project '23 Started Domestic installation and operation of water meters Remote meter reading system in Seoul Up to 1million water meters '18 Conducted pilot project '23 Completed advanced system establishment '23 Operation in 32 local governments including Seoul Operating total 170 thousand of communication terminal devices '22 designation as innovative product Smart water meter, RTU, operation S/W '22 K-water performance sharing system Smart water meter '23 Innovative product pilot purchase business '22 Water meter overseas pilot project 'Vietnam' Haijeong City intelligent water management demonstration project '23 Started Domestic installation and operation of water meters

Water Saving Solution [Smart Irrigation]

Reservoir monitoring

System overview



Water supply 2023

1.470 locations

2,148 **locations**

2025

Earthquake/ Leakage **Displacement Meter** disaster measurement device

2023

1,470 locations

3,326 **locations**

2032

| Achievement

'02 Developed the first automatic reservoir level measuring device in Korea

Development with Korea Rural Community Corporation /Joint patent registration

'07 NEP Certification

Korea's first overseas export
Thailand, Pakistan, Myanmar, Vietnam

'23 Real-time measurement at 5,500 locations (reservoirs, waterways)

'05 Started smart irrigation business

'21 Reservoir smart water management advancement research project

'22 Establishment of disaster risk reservoir early warning system

Yangyang, Boryeong in Korea

'23 performance sharing system (Rural Community Corporation)

Reservoir integrated gateway

Water Saving Solution [Smart Irrigation]

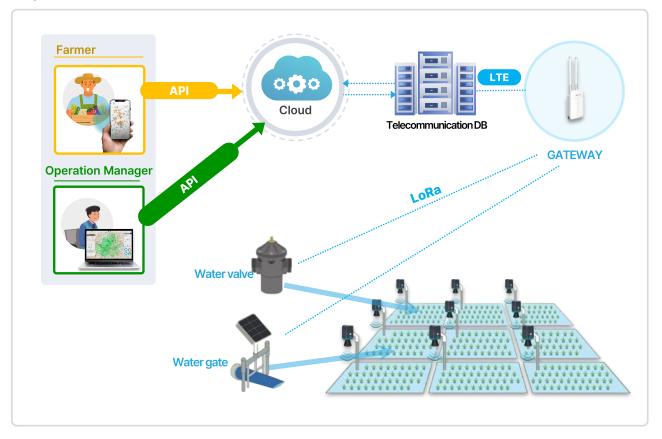
■ Rice farming irrigation

- Water saving by 50%
- Water management time reduced by 75%



carbon reduction
Reduce greenhouse gases by 63%

| System overview



| Core technology



Total system of early warning for water-related climate disaster (urban flood, river flood, etc.)

Technology and price competitiveness of IoT sensors measuring water level/flow

Data analysis and forecasting through open platform

Connection with related organization and systems







Small rivers



Underground manholes



Urban flood depth



Underpasses



Underground parking lots

Thank you!