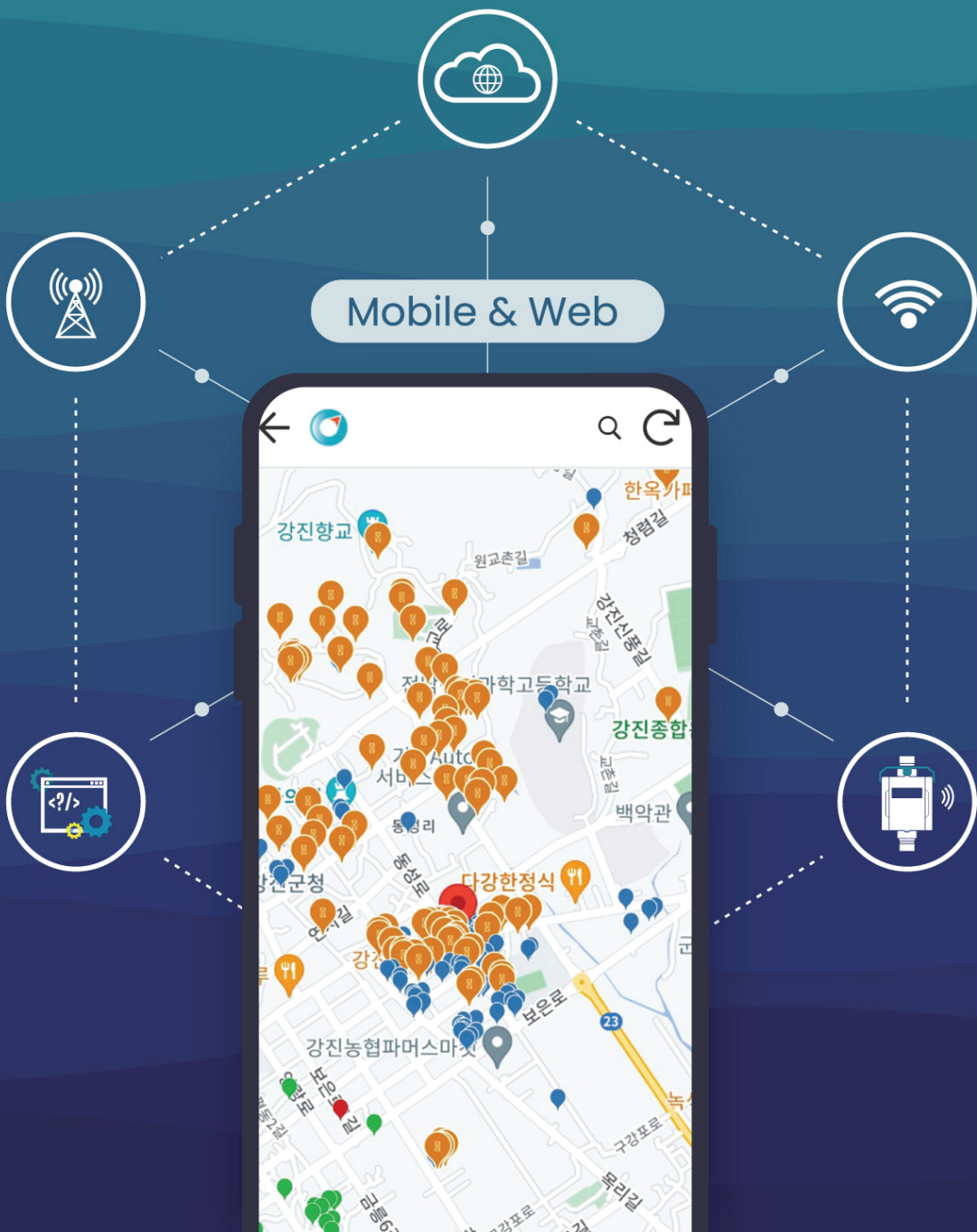


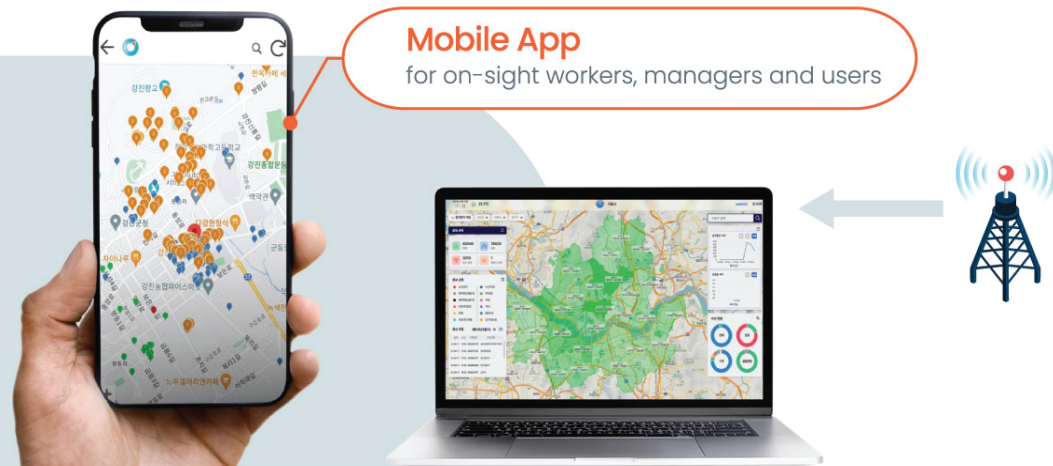
No 1. SWM Platform

with IoT sensors



Meter Data Management Platform

User-centric system with openness and compatibility
based on oneM2M



Detailed system status

Overall system, devices and communication



Customer information

Customer locations on map and detailed customer information



Meter reading/reception rate status

Statistics of meter reading/reception rates and daily/monthly trends



Device registration management

Meters and IoT communication devices



Integration with various system

Billing system: meter data migration
GIS system: enabling the display of water pipeline based on GIS system



Additional services

Detect leakage
Check the condition of the weak and the elderly living alone

Key features

First & Best Mobile App in Korea

- Improved work efficiency and accuracy
 - Saving and sharing on-sight photos & real-time data (worker name, work date, work type, results, etc.)
 - Easy to check and manage customer data (address, customer number, device ID, GIS info, etc.)
 - Reducing human errors by registering devices with QR code
- Improved convenience for users
 - Easy to check the water usage and the status of devices through mobile anywhere

Verified performance

- 2023 Upgrade project for remote meter reading system in Seoul metropolitan city (capability to manage up to 1 million meters)
- 2023 Project for remote meter reading system in Daejeon city
- Operating in 31 municipalities in Korea

Compatible with water meters from other manufactures

- Mechanical water meters also can be connected.

Smart Ultrasonic Water Meter

Innovative water meter with patent-based technology



Key features

Innovative Structure (G-Flow)

Unique structure optimized for small diameter meters

Patent application in progress in Korea and the U.S.

Remaining Battery Measurement

Accurate and easy management with battery level algorithm

Patent registration number 1021679120000

Leak detection

Check the leakage through the acoustic detection of water meters

Patent registration number 1018881880000

Why are Ultrasonic Water Meters superior?

01 Precision Consistency

Precision can be maintained until the end of its lifespan due to the absence of rotating parts
→ Fair billing realized

02 Measurement of Small Flow Rate

Leakage can be detected early due to its ability to measure small amounts
→ Early leak Detection

03 Pressure Loss Minimization

Water supply energy can be saved due to low pressure loss compared to mechanical meters
→ Energy saving

Smart RTU

Low-power IoT communication device



Minimize data loss

- Distributed data transmission (6-hour cycle)
- Random transmission
- Automatic adjustment of transmission interval
- Data logging and automatic recovery feature

Optimize network connections

- Improvement of transmission and reception sensitivity by installing devices externally
- Network reinforcement in weak signal area

Verify performance

- Total of 14 performance certifications for the device(KTR)
- Certification for thermal shock/ heat resistance/ cold resistance/ moisture resistance (KTC)

About

Established in 1993, IS Technologies Co., Ltd. is a No1. smart water management(SWM) platform company combining sensor technology and ICT technology.

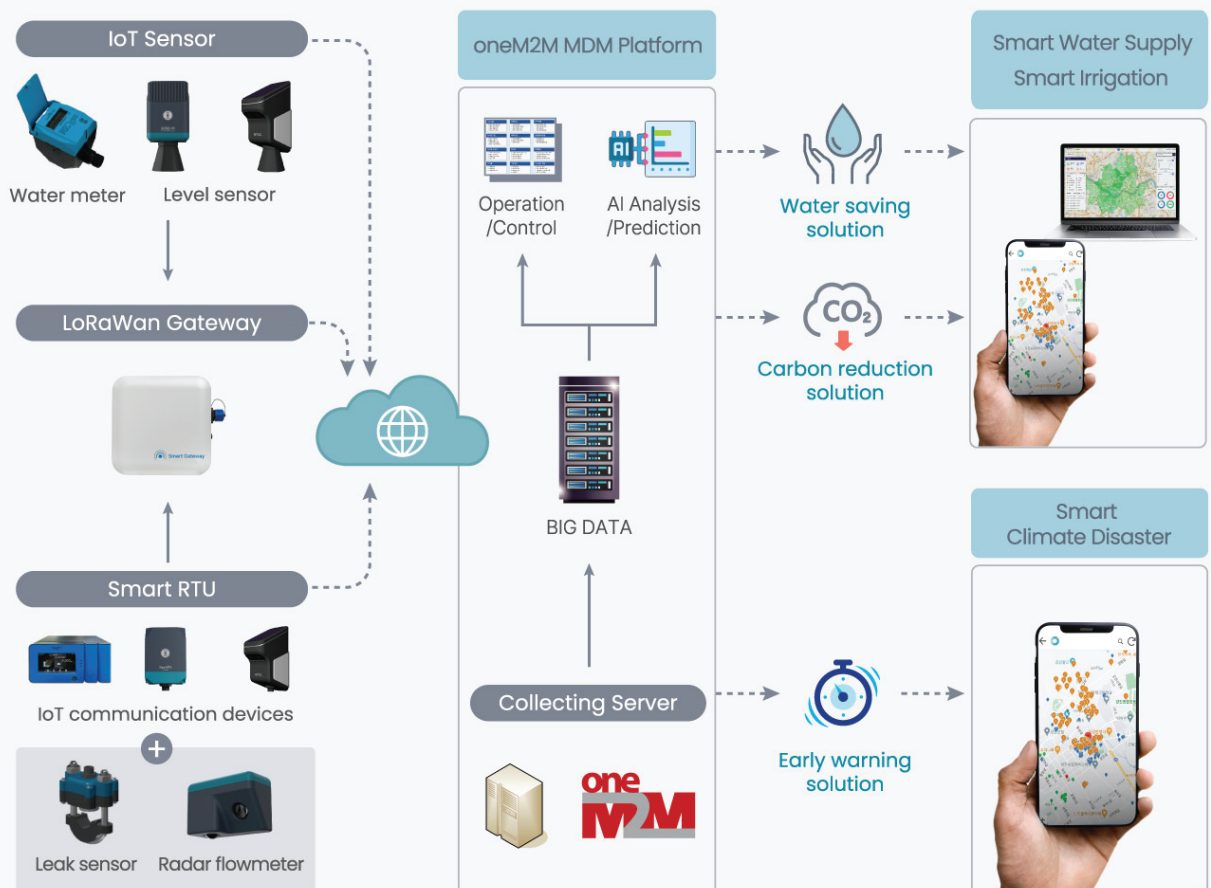
We produce ultrasonic sensors and meter devices based on piezoelectric materials of our own recipe. Also, we provide the first oneM2M-based platform in Korea. Through our platform, we analyze meter data and create water management solutions.

With our SWM system, we are creating sustainable values and moving forward to achieve carbon neutrality by 2050.

ISTEC SWM System

IoT Communication+Sensor

Digital Solution



*MDM : Meter(Measuring) Data Management

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