

SONDAR

ISTEC

# Urban Flood Early Warning Solution

IoT Radar Sensor-based Monitoring System



SINCE 1993

ISTEC is an IoT sensor solution company  
 for water management solutions and water disaster response  
 based on IoT sensors

**Level & flow monitoring for public utility**

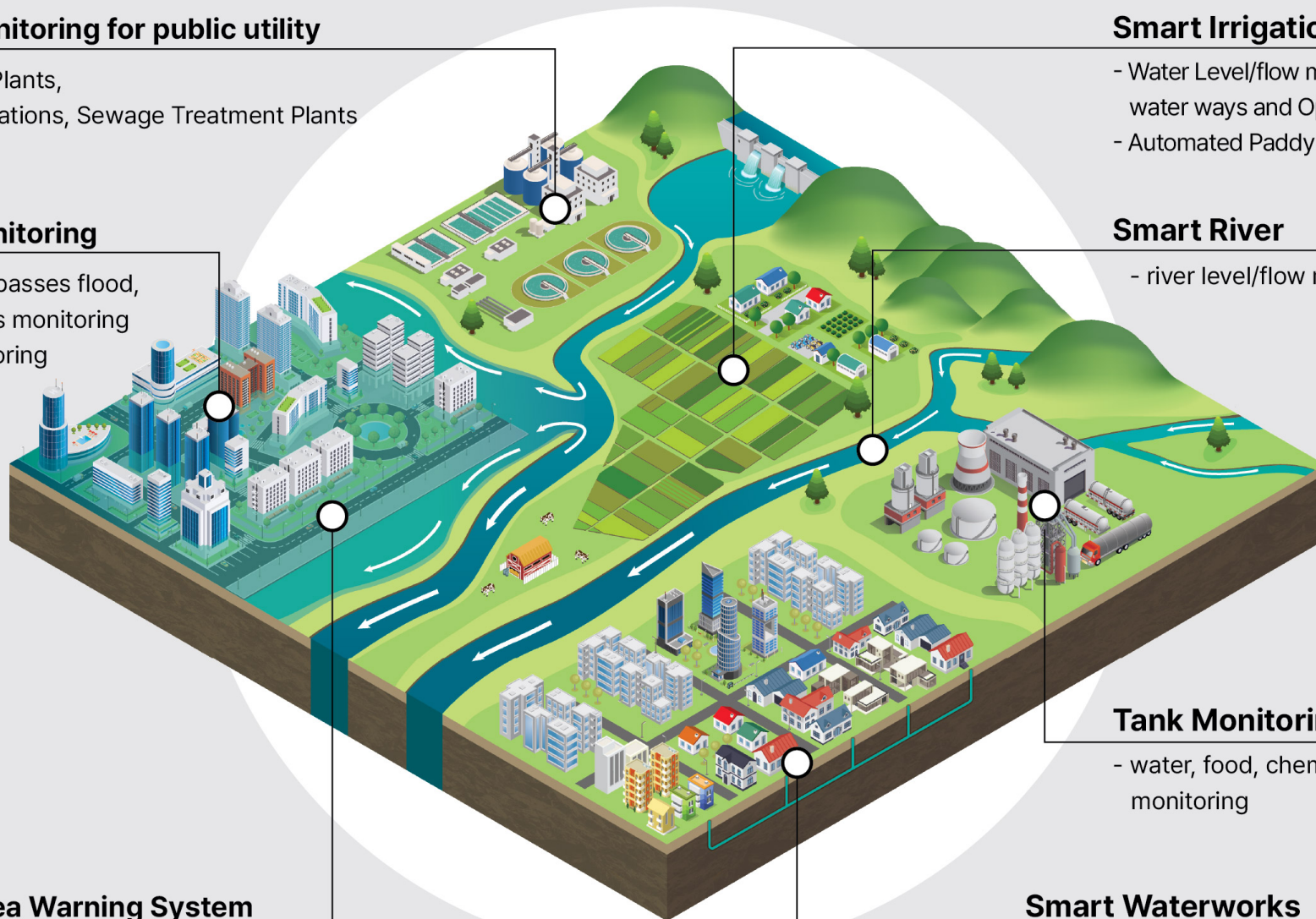
- Water Treatment Plants, Water Pumping Stations, Sewage Treatment Plants

**Urban flood monitoring**

- Road flood, underpasses flood, basement facilities monitoring
- Sewer level monitoring

**Flood-Prone Area Warning System**

- Total system Including Water Level meter, CCTV, and Access restriction Equipment



**Smart Irrigation**

- Water Level/flow monitoring in reservoirs, water ways and Open Channels
- Automated Paddy Field Irrigation System

**Smart River**

- river level/flow monitoring

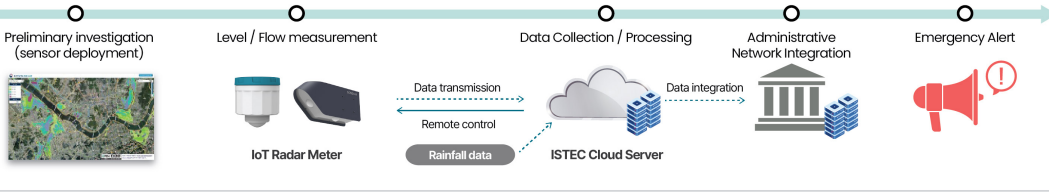
**Tank Monitoring**

- water, food, chemical tank level monitoring

**Smart Waterworks**

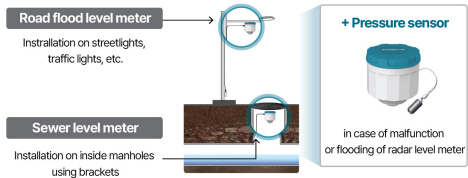
- Remote meter reading system
- Water meter, RTU, S/W

**Wireless IoT Sensor-Based**  
Urban Flood Warning Solution Specialized  
for Heavy Rainfall

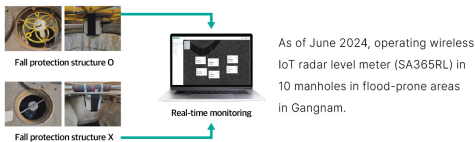


**Road Flooding / Sewer Water Level Monitoring**

Early warning of road flooding and sewer overflow risks in flood-prone areas

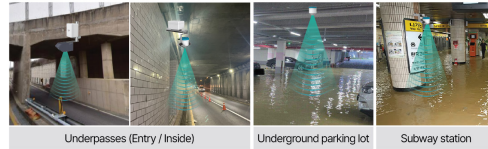


**'24 Pilot project in Seoul : Sewer water level monitoring**



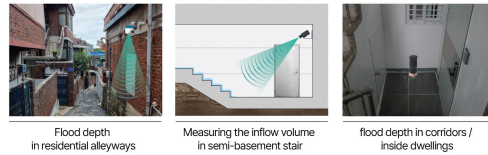
**Underground Flood Monitoring**

Flood alerts for vulnerable underground spaces such as underpasses, underground parking lots, subway stations, and underground shopping areas

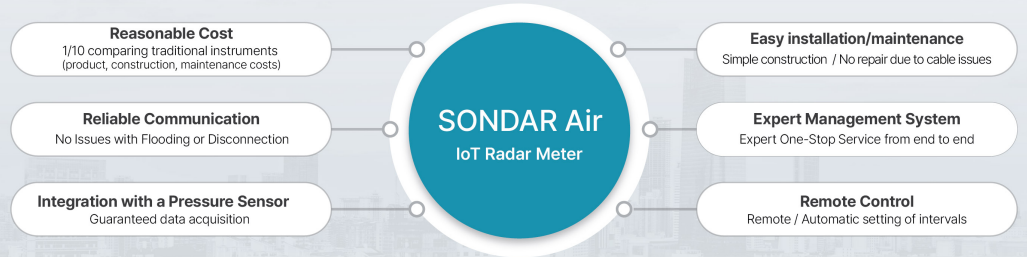


**Semi-basement Flood Monitoring**

Emergency evacuation alerts through internal and external measurements



**ISTEC DATA SERVICE**



**“ Cost reduction and alleviation of work burden through a data service. ”**

**River Level Monitoring**

Alerting residents of urban river flooding due to heavy rainfall



Compact design with integrated battery and solar power  
Easy installation anywhere

**Main Products**

\*Design and specifications are subject to change

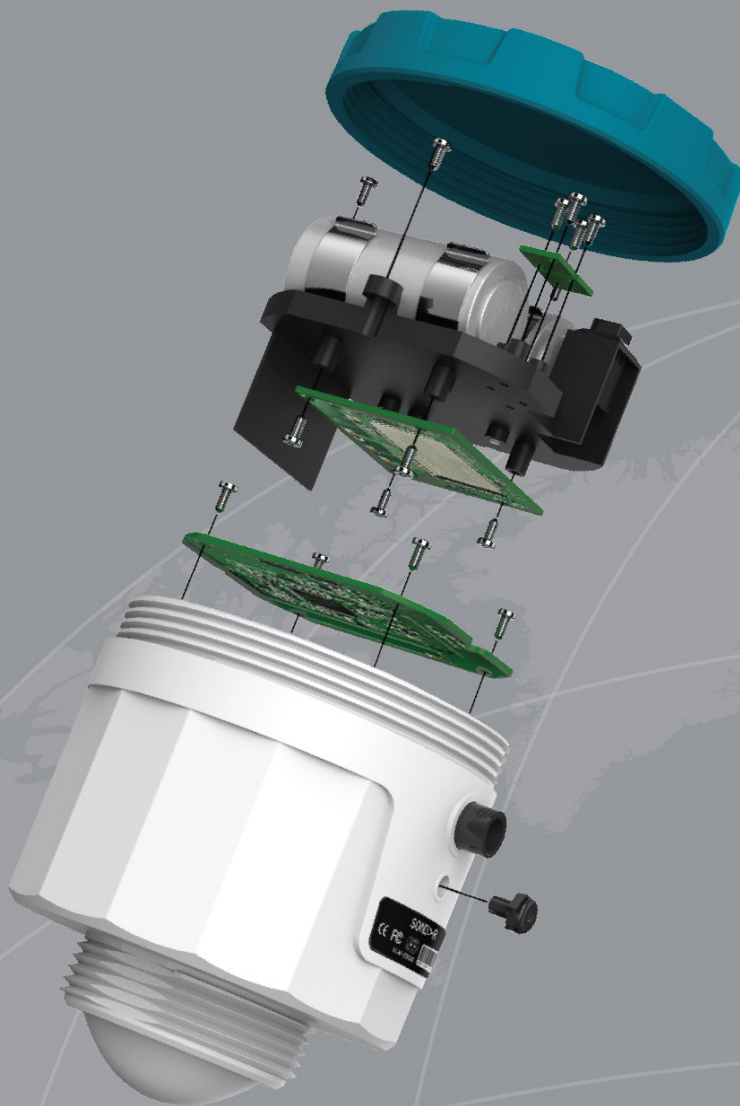


| Model         | SA365RL   | SA365RPL  | SA365RLV                          |
|---------------|-----------|-----------|-----------------------------------|
| Range         | 0.2 ~ 20m | 0.2 ~ 20m | 0.1 ~ 20m/s(velocity), 15m(level) |
| Beam angle    | 6°        | 6°        | 10°                               |
| Material      | PVDF      | PVDF      | PVDF                              |
| Frequency     | 60GHz     | 60GHz     | 60GHz                             |
| Power         | Battery   | Battery   | 12 ~ 30Vdc                        |
| Communication | CatM1     | CatM1     | CatM1                             |
| Protection    | IP68      | IP68      | IP65                              |

SONDAR Air

# Wireless IoT Level Meter

Sensor + battery + IoT communication



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SINCE 1993