

It is applicable in various fields

1 Bridges/ Tunnel Sites



2 Temporary Structures

(Roads, excavation work, etc.)



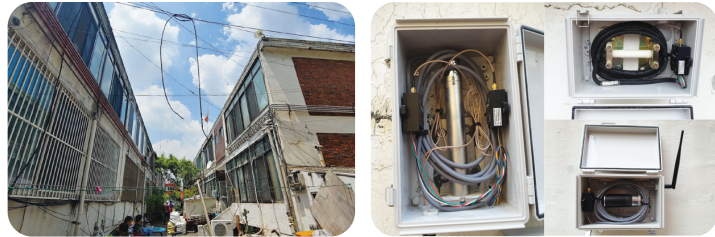
3 Ports



4 Factories



5 Slopes, Retaining walls, Buildings



Client



Korea Railroad Research Institute



KOREA INSTITUTE of CIVIL ENGINEERING and BUILDING TECHNOLOGY



Jeju Special Self-Governing Province



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IoT Total Solution

IoT total solution consisting of a standard platform, sensing devices and various software that allows easy monitoring of asset status anytime, anywhere



Continuous Monitoring



Instant Alert



Solar Energy



Camera

Embedded sensor

External sensor



Vibration



Tilt



Temperature



Humidity



Displacement



Wind Direction



Wind Speed



Webcam





Hello, thank you for visiting

Smart C&S aims to ensure the safe maintenance and management of construction structures and other facilities.

Since our establishment, we have pursued continuous technological innovation and developed various technical solutions to meet our customers' needs, allowing us to grow.

We not only ensure facility safety through our current measurement systems but also expand into diverse business models, including SMART-ITS (IoT Total Solution), non-destructive testing technology, and professional safety inspection/diagnosis/analysis/platform functions. To respond to the evolving environment, we actively invest in research and development.

Moving forward, we will continue to create a world where sustainable safety is ensured for all through technology, together with Smart C&S.

01 IoT system of safety diagnosis for facilities

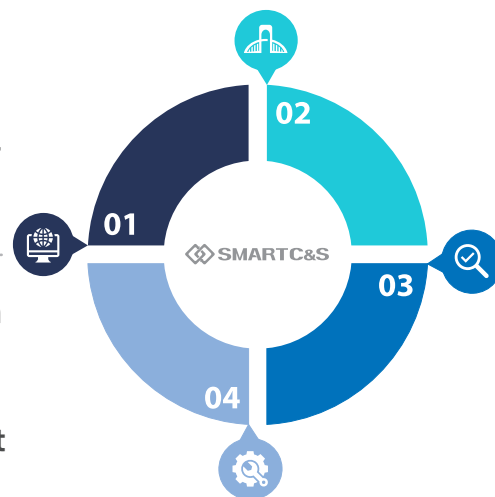
02 Bridge safety management

Construction site safety management

NDT and mechanical properties equipment

04

03



Can the condition of a structure be assessed through visual inspection?

It is difficult to detect subtle changes through visual inspection alone. Small anomalies can develop over time and lead to major accidents. Therefore, it is essential to monitor conditions such as vibration, cracks, and tilt in real time.

Smart C&S Unique Differentiation



Simple Installation

1. Quick installation without complex wiring
2. Easily applicable in various sites such as factories, construction sites, and ports



Data Reliability

Data stability ensured with impact protection and battery discharge prevention technology.



Flexible Applicability

Supports integration with various sensors and communication methods, including Wi-Fi, LoRa, and Bluetooth



Smart Technology Integration

Custom solutions provided through in-house design, manufacturing, and testing



Static Device

Strain
(Displacement, Strain, Load, Crack, Tilt, Pressure)

Laser Displacement

Temperature

RS-485



Dynamic Device

Acceleration

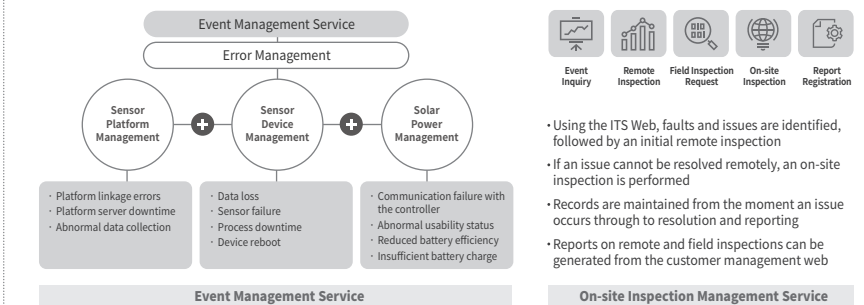
GNSS

CCD

Wind Direction/Wind Speed

Standard Platform

- GUI designed for users to check information instantly and intuitively
- Web and App services available anytime and anywhere



System

