



Smart Construction Solution

An award-winning CITF Pre-approved Smart Site Safety System (4S) Solution



Empower your projects with Smart Construction — an integrated solution leveraging AI, IoT and 5G technologies to enhance safety, streamline operations and ensure compliance.

Combining Technology & Humanity

- Foster a Safer and Healthier Site Environment
- Empower Real-time Monitoring and Enhance Operational Efficiency
- Achieve Environmental, Social and Governance (ESG) & Sustainability Goal

Why Smart Construction?

- ✓ CITF Pre-approved Product (PA20-025, PA20-033)
- ✓ CIC Construction Innovation Award Winner
- ✓ ESG Recognition Scheme Subsidy List



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Learn More



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安全智慧工地系統標籤計劃
SMART SITE SAFETY SYSTEM
LABELLING SCHEME



CITF
建造業創科基金

Pre-approved 4S Solution
預先批核4S方案



CIC CONSTRUCTION
INNOVATION
AWARD
建造業議會創新獎



ESG Recognition Scheme
可持續發展嘉許計劃

Subsidy List of ESG Recognition Scheme
可持續發展嘉許計劃資助名單

Smart Site Safety Systems

AI Safety Monitoring System

Utilizes advanced AI surveillance with facial recognition to detect PPE violations, unsafe behavior, fall incidents and unauthorized presence in real time, delivering proactive alerts to enhance worker safety and speed up accident response.

Dangerous Areas Access Control System

Monitors crane and excavator working zones with real-time alerts to prevent unauthorized entry, boosting site control and protecting workers around heavy machinery.

Confined Space Monitoring System

Monitors toxin gas levels, tracks entry/exit activity and analyses live video and people counts in confined areas. Ensuring regulatory compliance and safeguarding workers in high-risk environments with accurate occupancy monitoring.

Smart Padlock

Mobile app-controlled locks with real-time access logs and alert notifications offer enhanced access security and traceability across sensitive areas of the site.

Smart Monitoring Technology

Smart Wearables for Frontline Personnel

Equipped with GPS, biometric sensors and SOS functionality, smart helmets and watches monitor worker location, vitals and safety conditions, enabling immediate incident alerts and improving lone-worker safety.

Environment & Health Stations

SmartHealth Station

On-site health stations capture and record workers' vital signs such as body temperature, blood pressure and heart rate, supporting early detection of health risks and fostering a safer, healthier workforce.

Environment Station

Continuously measures temperature, humidity, air quality and noise levels. Enables supervisors to assess environmental risks, such as heatstroke, and take timely preventative actions.

Construction Management Innovations

Temporary Lift Shaft Safety System

Detects and alerts site management when lift shaft gates are opened improperly or without authorization, minimizing fall risks and ensuring compliance with site safety protocols.

Dump Truck Management

Digitally tracks dump truck routes and dumping activity, providing real-time detour alerts, detailed trip logs and automated receipt management, ensuring regulatory conformity and operational efficiency.





Integration of Cutting-Edge Technology and Robust Network Infrastructure



Reliable Network Technology

Seamless communication with 5G, Super Wi-Fi, LoRaWAN, etc.



AI Camera Surveillance

Automated monitoring with smart video analytics for safety.



Smart IoT Sensors

For construction efficiency, safety and project management.



ESG-Linked Performance

Supports environmental monitoring and sustainability reporting.



Solar Energy System

Sustainable energy solutions for construction site.



Regulatory Compliance

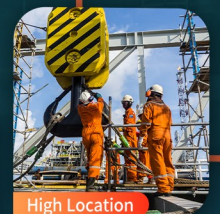
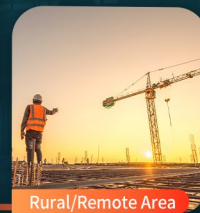
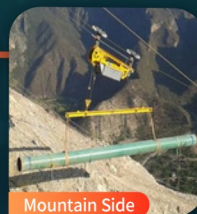
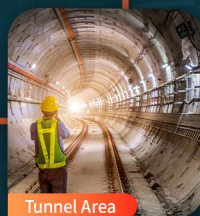
Integrated systems comply with industry regulations and standards.



Unified Management Portal

Central dashboard for data-driven site decisions.

Seamless Connectivity for Diverse Site Locations



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Subsidy List of ESG Recognition Scheme
可持續發展嘉許計劃資助名單