CIC Webinar on N&P Worker Caring Programme

Mr. Ken Ho

Senior Sales Manager . Corporate Accounts . Business Markets

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About SmarTone

1992 Established – Mobile Service Provider

- Sun Hung Kei Property Group Company
- **1996** HKSE listed (0315.HK)

Renowned for Quality & Innovation

- Major Share in Enterprise Market
- Highest ARPU Lowest Churn

2012 ICT Solutions to Enterprise Market

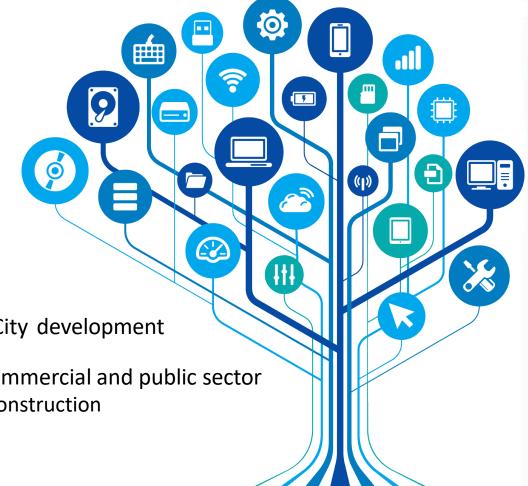
- Complex Network Solutions
- Industry Applications

- Messaging Solutions
- Cybersecurity Solutions

2020 Launched the widest coverage 5G services, key part of Smart City development

Today SmarTone Solutions offers wide range of smart solutions to commercial and public sector

- 20,000+ flats adopted SmartHome
- 30+ malls deployed Smart Building
- 100+ sites using Smart Construction
- And many more ...



Smart Construction Solution – SmartWorks

An Award-Winning Solution to Enhance Safety & Efficiency

- ✓ Enhance operational safety
- ✓ Strengthen management efficiency
- ✓ Promote workers' health
- √ Improve environmental performance





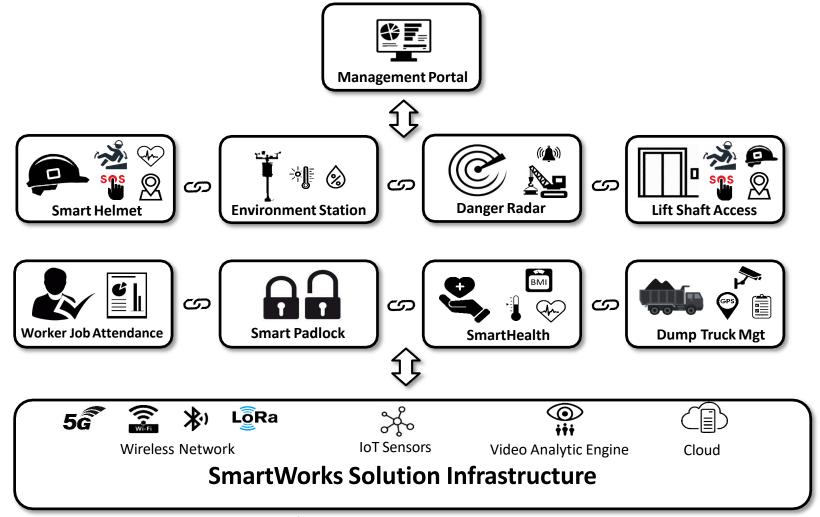






SOLUTION:

SmartWorks - Solution Overview



Key challenging for Infrastructure design – site locations



1. Rural area



4. Remote area



2. Confined space



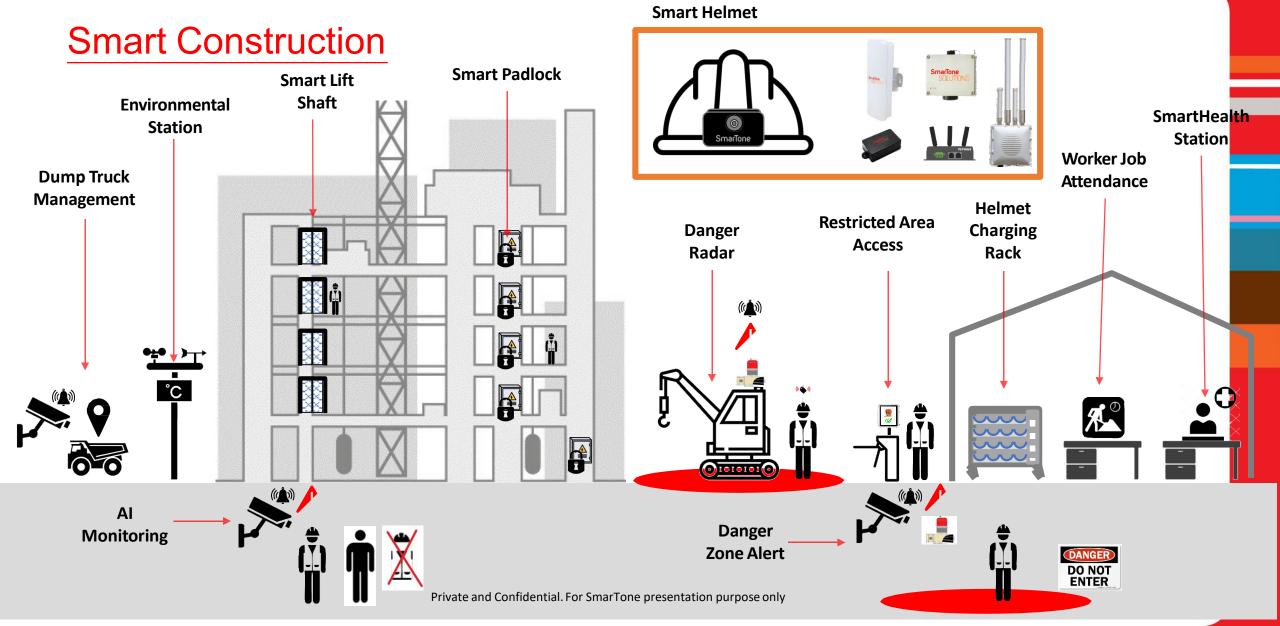
5. Mountain side



3. Tunnel area



6. High location







Environmental **heat stress** monitoring and alert





Falling and wearing status detection





SOS button for emergency calling





Whereabout for job attendance and safety



Smart Helmet







Smart Gateway (POE)

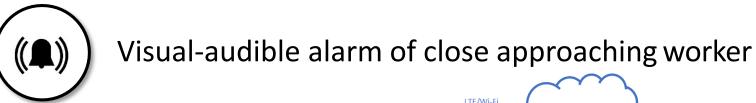


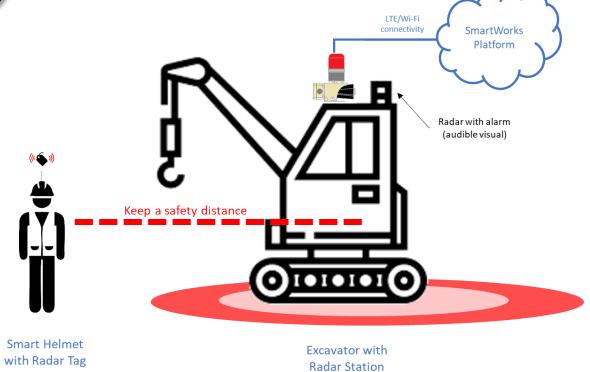
iBeacon



LoRaWAN Gateway

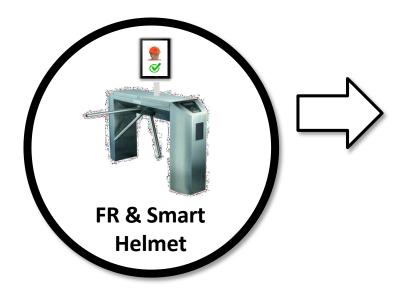
Danger Rader







Access Control to Restricted Area





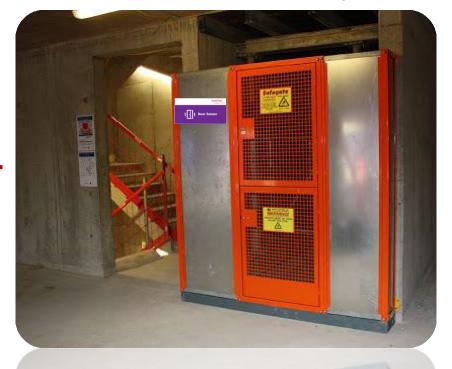
Authenticated by **facial recognition** and video analytic on wearing **personal Smart Helmet**



Safety Alert for Temporary Lift Shaft Gate

- Safety measures to mitigate risk
- Monitor the status of Lift Shaft Opening gate in a reliable and effective way







Reference cases

Reference Case – Inter-Reservoir Transfer Scheme (IRTS)

Project	Construction of tunnel - Across hills - 2.9 km in length
SmartWorks	 Smart Helmet 1.0 Smart Gateway (PoE+Wi-Fi) + LTE router Long-range Wi-Fi SmartHealth Station Access Control Turnstile Facial recognition
Considerations	 Progressive installation Challenges Enclosed space installation environment Tough Special Tunnel boring machine Wi-Fi interference







Reference Case – Tung Chung New Town Extension

Project	Reclamation of land works - about 130 hectares
SmartWorks	Smart Helmet 2.0LoRaWAN GatewayHelmet Charging Rack
Considerations	 Large areas to cover Carefully planning of LoRaWAN Gateway followed by on-site coverage checking.

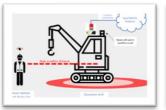




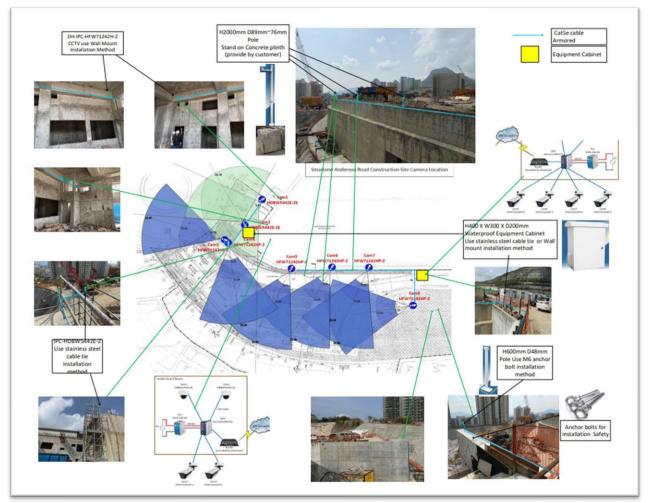
Reference Case – Development of Grey Water Treatment Plant

Project	Grey Water Treatment Plant
SmartWorks	 Smart Helmet 2.0 LoRaWAN Gateway Danger Radar CCTV AI monitoring
Considerations	 Carefully planning of LoRaWAN Gateway followed by on-site coverage checking.









SmarTone SOLUTIONS 50 MAKE US SMART