

SmarTone and Route 3 (CPS) Company Limited Launch

Hong Kong's First 5G SmarTransport Safety Monitoring System for Tai Lam Tunnel

(Hong Kong, 20 January 2021) SmarTone and Route 3 (CPS) Company Limited today announce the implementation of Hong Kong's first 5G SmarTransport Safety Monitoring System targeted for vehicular tunnel and highway at Tai Lam Tunnel. This system combines SmarTone's 5G network, IoT motion detection cameras, machine learning, AI analytics, cloud-based video analytics platforms and more cutting-edge technologies, enabling high-speed footage transmission from tunnel areas to control room. This allows for instant detection and identification of jaywalkers, triggering real-time alerts to safeguard road-users and improve the tunnel's traffic safety and operational efficiency.

To date, SmarTone is the only network operator providing 5G network coverage at Tai Lam Tunnel. 5G's ultra-high speed and high bandwidth effectively supports the 5G SmarTransport Safety Monitoring System:

- IoT motion detection cameras will be installed at designated tunnel areas; high definition footages will be uploaded to cloud-based video analytics platforms through 5G, enabling real-time identification of any jaywalkers, including hikers and cyclists, for immediate follow-up and accident prevention.
- 5G's high bandwidth and high uplink support instant transmission of high definition footages to cloud-based video analytics platforms, allowing for real-time analysis by AI and machine-learning. If jaywalkers are detected, control room will be alerted immediately.
- Fixed network placement within tunnel area is not required for the 5G SmarTransport Safety Monitoring System. 5G wireless network is extendable, unrestricted by environmental factors, and can be mobilised flexibly based on operational needs. Its high bandwidth and high uplink enable instant transmission of 4K videos to cloud-based video analytics platforms, whereas its low-latency allows for real-time detection and alert.
- Tunnel operator can automatically monitor the tunnel and control areas 24x7 and respond immediately in case of emergencies, improving operational efficiency.
- The system creates a new real-time management model that strengthens the communication and response time of different departments, builds a more efficient response plan and realizes intelligent management.

SmarTone’s Head of Business Markets, Mr Daniel Leung, said “5G plays a pivotal role in the development of Smart Mobility, which is one of the key components for Smart City. By incorporating cutting-edge technologies such as AI, machine learning and edge computing, 5G will bring infinite possibilities to daily life and business operations. SmarTone is delighted to work with Route 3 (CPS) Company Limited in launching Hong Kong’s first 5G SmarTransport Safety Monitoring System. Through the high bandwidth and high uplink of 5G network, instant transmission of high definition 4K videos and real-time video-analysis are made possible without the need of placing fixed network within the tunnel, providing flexibility and improving the tunnel’s operational efficiency and traffic safety.”

Route 3 (CPS) Company Limited’s General Manager, Mr Patrick Cheung, said “Tai Lam Tunnel is dedicated to provide drivers with a safe and reliable driving experience. Due to the tunnel’s proximity to Tai Lam Country Park and its neighbouring cycling track, hikers and cyclists could accidentally enter the toll area, hence an effective detection system is essential. The 5G SmarTransport Safety Monitoring System can relay footages to the Tai Lam Tunnel control room in real-time. When jaywalkers are detected, on duty staff will be alerted immediately to facilitate a timely response, eliminating and preventing incidents.”

SmarTone 5G is built upon its powerful LTE network and Ericsson’s unique Dynamic Spectrum Sharing technology (“DSS”), providing the widest coverage in Hong Kong[^], now extended to over 250 key indoor sites including prime locations, commercial areas and major malls, MTR stations, 17 major tunnels and 65 outdoor hotspots, giving our customers a faster, stabler, smoother 5G experience both indoors and outdoors.

[^]Based on results obtained from SmarTone’s road test conducted on 2 December 2020. The road test covers major roads including expressways, trunk roads, tunnels and bridges in Hong Kong. 5G coverage is defined as spot with received 5G radio signal level not weaker than -95dBm. The visual shown is for illustrating the coverage of our 5G network. Coverage may not be available in some locations.

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About SmarTone

SmarTone Telecommunications Holdings Limited (0315.HK)(SmarTone) has been listed in Hong Kong since 1996 as a subsidiary of Sun Hung Kai Properties Limited. It is a leading telecommunications company with operating subsidiaries in Hong Kong and Macau, providing voice, multimedia and mobile broadband services, as well as fixed fiber broadband services for the consumer and corporate markets. Since May 2020, SmarTone has launched the widest coverage 5G services in Hong Kong, leading Hong Kong's 5G development. Through its powerful network, purposeful apps, innovative approach and passionate service, SmarTone has established itself as a trustworthy "Smart Partner" to its customers. Its personalised service plans, exceptional support, outstanding business and personal products bring smart living to its customers. SmarTone is equipped with rich professional knowledge, and its 30 plus stores within Hong Kong, 5 subsidiary brands catering to different markets and innovative corporate solutions has placed SmarTone as an industry leader.

About Route 3 (CPS) Company Limited

Route 3 Country Park Section is a 10.1 km toll road which starts from Ting Kau at the South end, travelling under the Tai Lam Country Park to Au Tau, Yuen Long. There are several exits connecting to nearby districts such as Kam Tin, San Tin, Pat Heung, Yuen Long, Tsuen Wan and Tsing Yi. Tai Lam Tunnel was officially opened to traffic on 25 May 1998, to provide one of the safest, most reliable, most comfortable, and most convenient tunnels in Hong Kong, thereby giving you, our most treasurable customer, value for money services.