



LSCM's COVID-19 Related and Smart City Technologies Win Four Awards at the Special Edition 2021 Inventions Geneva Evaluation Days

22 April 2021, Hong Kong — The Logistics and Supply Chain MultiTech R&D Centre (LSCM) garnered four awards in the Special Edition 2021 Inventions Geneva Evaluation Days, the first-ever virtual edition of the annual International Exhibition of Inventions of Geneva (IEIG). LSCM's *"Electronic Wristband and Monitoring System for Hong Kong's 'StayHomeSafe' Home Quarantine Support Solution"*, which was developed to facilitate the city's compulsory home quarantine arrangement amid the COVID-19 outbreak, was awarded a Gold Medal, whilst its smart city technologies won three Silver Medals. This year, more than 600 inventors from 20 countries participated in this online event. LSCM's remarkable accomplishment in this international competition recognises its continuous efforts in supporting the anti-pandemic work in Hong Kong, and the Centre's latest technological advancements.

Mr Simon Wong, Chief Executive Officer of LSCM, said, "We are delighted that our novel technologies were recognised again this year with prestigious awards at the Special Edition 2021 Inventions Geneva Evaluation Days, one of the most esteemed global events dedicated to innovation. In the face of the rapidly changing environment, innovation and technology are indispensable for us to address the emerging challenges brought by the COVID-19 pandemic. We are committed to fully leveraging on our competencies and expertise in innovation and technology to drive excellence in the logistics and supply chain-related industries, and facilitate Smart City development in Hong Kong."

LSCM's Award-winning Projects

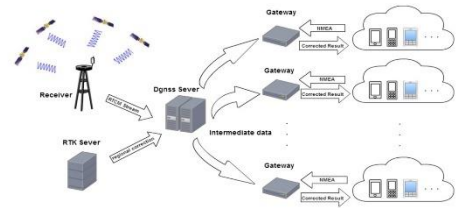
Gold Medal: *Electronic Wristband and Monitoring System for Hong Kong's "StayHomeSafe" Home Quarantine Support Solution*

The "StayHomeSafe" solution, consisting of an electronic wristband (e-wristband) and a monitoring system, provides a tracking mechanism to ensure the confinee's presence in the designated quarantine premises during the quarantine period. The solution was developed to facilitate the compulsory home quarantine arrangement implemented by the Hong Kong SAR government to combat COVID-19. By installing a tracking device in the residence and pairing it with an e-wristband worn by the confinee, the system monitors the tracking device remotely on the received signals emitted from the e-wristband to ensure that the confinee is nearby and the tracking device is within the residence. Alerts will be triggered if there are any abnormalities.



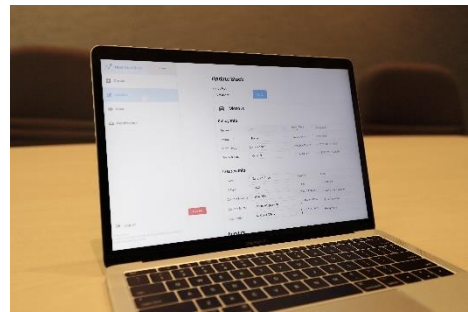
Silver Medal: Seamless Navigation in Urban Environment

This technology was developed to improve mobile phone positioning accuracy. It enables the positioning to achieve an accuracy of 2 metres in open areas, and less than 10 metres in dense urban areas, for mobile phone-based and location-based services. It uses a position-domain DGNSS (Differential Global Navigation Satellite System) platform with an accuracy of 2 metres, the multipath mitigation engine with the integration of GNSS observation, Microelectromechanical Systems (MEMS) inertial sensors and a 3D map for greater accuracy in positioning.



Silver Medal: Next InsurChain

‘Next InsurChain’ utilises blockchain technology for the efficient sharing and tracking of insurance policies among different parties in the insurance industry, with permission, while enabling proper access control and privacy protection of the shared information. This solution helps tackle the issues of fake insurance policies and fraudulent claims. It can also enhance the efficiency of estimating insurance quotes and handling claims.



Silver Medal: Delivery Robot with End-to-end Navigation Policy

This technology was developed to provide automatic and reliable delivery services. The delivery robot was built with advanced software and hardware infrastructure to travel in complex and dynamic environments. It navigates via simultaneous localisation and mapping (SLAM) with lidar and LSCM’s in-house trained deep-learning path planning policy, which enable it to smoothly pass through narrow paths with gateways, wide-open areas, and regions full of moving obstacles.



Running from 10 to 14 March 2021, this year’s event was a virtual edition of the International Exhibition of Inventions of Geneva. With a history of more than 40 years, this world-renowned exhibition attracts the submission of around 1,000 inventions from 40 countries every year. This significant global event was arranged under the patronage of the World Intellectual Property Organization (WIPO), the Swiss Federal Government, and the State and the City of Geneva, to showcase innovations and inventions from around the globe.





About LSCM

The Logistics and Supply Chain MultiTech R&D Centre (LSCM) was founded in 2006, with funding from the Innovation and Technology Fund of the Government of the Hong Kong SAR, and is co-hosted by the University of Hong Kong, the Chinese University of Hong Kong and the Hong Kong University of Science and Technology. It aims to strengthen the local logistics sector and related industries by providing a one-stop resource for technology research and transfer, and to reinforce co-operation between the industry and research institutes, so as to bring about meaningful and significant benefits to the industry and the community. For more information, please visit www.lscm.hk.

Photo caption

Photo 1



The Logistics and Supply Chain MultiTech R&D Centre (LSCM) garnered 1 Gold Medal and 3 Silver Medals in the “Special Edition 2021 Inventions Geneva Evaluation Days”. Mr Simon Wong, Chief Executive Officer of LSCM (middle), and various research teams introduced the award-winning technologies at LSCM Media Briefing on Special Edition 2021 Inventions Geneva Evaluation Days.

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