



Land Surveying Division

Sr Lau Chi Kwong LSD Council Chairman

Land Surveyors are Geospatial Experts

Land surveyors acquire advanced and innovative skills and technologies to conduct geospatial data acquisitions and analyses to help manage smart cities and built environments. The technologies they use include unmanned aerial vehicles, mobile mapping systems using backpack or car-mounted scanning technologies, etc. The final products of geospatial data gatherings can be used in various ways.

1. The Hong Kong Science and Technology Parks Corporation and DevB's Spatial Data Office, along with their respective representatives, Sr Edmond LAM and Sr YC CHAN, co-organised a challenge to promote the use of geospatial information. The Lands Department, HKIS, and other institutes were invited as the sponsoring organisations.
2. A CPD was also held to show how to acquire the technologies to implement smart cities and built environments. Sr YIK Wai-fung was invited to give the talk. He is the Senior Survey Manager of the 3D Mapping Project Section of the Lands Department's Survey and Mapping Office.

Location Matters Tech Challenge

As the HKIS is a supporting organiser of the Location Matters Tech Challenge, LSD member Sr TM KOO and I had the privilege of attending its Final Pitching and Award Ceremony on 23 February. This remarkable event was co-organised by the Hong Kong Science and Technology Parks Corporation

(HKSTP) and DevB's Spatial Data Office with the aim of uncovering the hidden value of spatial information. Participants were invited to submit proposals and demonstrate how the integration of common spatial data infrastructure (CSDI) spatial data and the available spatial data at Hong Kong Science Park could generate innovative geospatial solutions to transform business and community experiences at Hong Kong Science Park and beyond.



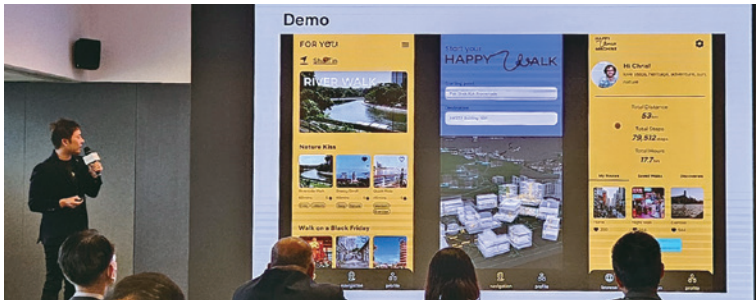
Sr TM Koo (middle) and Sr CK Lau (right) receive a souvenir on behalf of the HKIS.

The challenge attracted over 50 contestants from both open and student groups, as well as approximately 200 Young Talents. These participants gained a valuable awareness of geospatial data through a series of training sessions. It was truly fascinating to witness the final presentations of the Young Talent teams, which showcased impressive geo-driven proposals. The range of the innovative ideas presented was diverse and included a geospatial property matching solution, a map-driven event app for social convergence, a happy walking path generator, and a mental health needs addressor. Other proposals explored a generic wayfinding platform, the use of GIS in cycling, AED device service areas, unsold food redistribution, and vacant shop identification.

CPD Highlights

Challenges and Opportunities for Land Surveying Professionals in the 3D Map Era

On 29 February, Sr YIK Wai-fung delivered a CPD on the production of territory-wide 3D digital maps and his views on how the land surveying industry can better embrace the challenges and opportunities in a 3D map era.



A contestant presents his entry.



Another contestant presents his entry.

These proposals not only showcased the power of geospatial data from CSDI and the HKSTP, but also exemplified the vast potential of GIS technology. The LSD's heartfelt appreciation goes out to its members, Sr YC CHAN, Sr Mark TSE, Sr Amy WONG, Sr Joanne KIU, Sr Tammy HO, Sr KF WONG, and Sr Edmond LAM, for their tremendous efforts in organising such an excellent event. It extends its gratitude to LSD Council members Sr Mickey NG and Sr Winnie WONG, who served as mentors to the Young Talents and coached them to deliver impressive presentations. It was truly delightful to see other LSD members in attendance to demonstrate their support for these future surveyors and their innovative land matter solutions.



(L-R): Sr CK LAU presents a certificate of appreciation to Sr YIK Wai-fung.

In 2019, Sr YIK was commissioned to generate the first set of territory-wide 3D digital maps of Hong Kong to support the city's smart city development. From the project's market research to its production management and 3D map application stages, he and his team marked its milestones through the introduction of technical specifications, workflows, deliverables, and a data dissemination scheme. They also



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shared the stories behind the making of those technically ambitious and forefront 3D models.

At the end of his presentation, Sr YIK reviewed his professional career and most recent 3D map journey. He further discussed how land surveying can better embrace challenges and opportunities in a 3D map era: “We land surveyors have the ‘DNA’ to embrace advance technologies. I have full confidence in our competence in a technology-driven, ever-changing era.”

The ensuing Q&A session was chaired by LSD Council member Sr Ricky CHEUNG and featured discussions by surveyors from the public and private sectors and academia. The event went overtime to accommodate extensive dialogue on exchanging 3D map application scenarios and the relationship between traditional 2D plans and 3D models. Finally, Sr YIK thanked the concerted efforts of his teammates and concluded his seminar with the following Chinese proverb:

「兼收並蓄，不斷創新，居安思危，自強不息。」



Sr Prof Ben CHAN raises a question with the discussion panel.



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