



Land Surveying Division

Sr Koo Tak Ming LSD Council Chairman

LSD Council Activities

As the COVID-19 situation gradually stabilises, the LSD Council has rescheduled its outstanding interviews/assessments/meetings and wants to catch up on its originally scheduled events as much as possible.

It shall continue to adopt Zoom as its primary tool for meetings/CPDs to achieve social distancing effectively. It also encourages face-to-face meetings/interviews/assessments, when necessary, to strike a balance between upholding the quality of the interaction and complying with the prevailing Prevention and Control of Disease (Prohibition on Group Gathering) Regulation.

Code of Practice (COP) under the Land Survey Ordinance (Cap 473)

The Land Survey Ordinance (LSO, Cap 473) was enacted in August 1995 to provide for the registration and regulation of land surveyors engaged in land boundary surveys, control the standards of those surveys, establish land boundary records, and other related matters.

Under Sec 29 of Cap 473, The 1st Edition of the Codes of Practice (COP) was, after consultation with the HKIS, approved by the Authority on 5 October 1995 for the purpose of providing practical instruction or guidance in respect of land boundary surveys and related matters. The Authority may, from time to time, revise any code of practice it prepares in pursuance of this section and approve any revision or proposed revision of any part of any code of practice for

the time being. It can also apply in relation to the approval of any revision, as they apply to the approved COP/s.

Four editions of the COP have been issued and there has been no further update since the 4th Edition (Revised) was issued in December 2006. Now is a suitable time to re-visit the issue in conjunction with other boundary matters related to land in the last Land Boundary Committee meeting. Sr Joseph Wong will convene the Working Group of the Code of Practice Revision to reflect the Institute's views in accordance with the provisions of the Land Survey Ordinance.

Role of Surveyors in Smart Cities and Working with 3D Spatial Data

Enhancing the use and sharing of spatial data (i.e., data with a location component such as geographical coordinates), which should account for some 80% of the world's data, is increasingly recognised worldwide as the key to robust policymaking, innovation, and value creation in society. Advanced economies such as Singapore, the UK, and the US have been promoting the concept of "spatial data infrastructure," which facilitates the availability of and access to spatial data for governments, businesses, non-profit bodies, academia, and ordinary citizens. Acknowledging that spatial data infrastructure is important to smart city development, the HKIS noted that the Hong Kong Government has committed to the Smart City blueprint released in December 2017 to develop the CSDI and 3D digital map. With \$300 million in funding earmarked for the 2019-2020 Budget, the HKIS welcomes the full operation of the CSDI portal by the end of 2022.

The Working Group of Smart City and 3D Spatial Data was formed under the Land Boundary Committee. Sr YC CHAN will convene it to give the Institute's views on the scope of 3D spatial data as a data user, provider, and manager.

PASS Professional Services Advancement Support Scheme (PASS)

Further to the last update on the PASS Workshop, another one on “The Latest Market Requirements: Practicing Qualification, Procedure, Applications, Market Opportunities in Belt and Road Countries: China, Sri Lanka, Pakistan, and Kazakhstan” was co-organised by the HKIS and its Guangdong counterparts, 廣東省測繪學會 and 廣州市測繪地理信息協會, on 5 September. Experts/delegates from China, Sri Lanka, Pakistan, and Kazakhstan met online to discuss the latest developments in this field.

日前，由香港測量師學會土地測量組主辦，廣東省測繪學會以及廣州市測繪地理信息協會協辦的一帶一路國家測繪市場情況分享研討會通過網上直播的方式進行。會議邀請了中國、斯里蘭卡、巴基斯坦和哈薩克斯坦的測繪專家一起分享一帶一路國家的測繪執業資格要求、程序、申請方法及市場可能性。

會上，由廣東省測繪學會以及廣州市測繪地理信息協會協助邀請的自然資源部測繪發展研究中心管理與法制研究室主任熊偉先生以《中國註冊測繪師制度建設與發展現狀》為題，深入淺出其剩餘三個國家的代表均攤了各自國家的測繪市場現況，以及當地測繪行業面臨各種挑戰。三個國家的代表分別為：斯里蘭卡 Sabaragamuwa 大學高級講師 Divithura Homindra 博士和 Vipula Abeyratne 先生，JSC 國家空間研究與技術中心 (NASA) 遙感和 GIS 實驗室負責人 Serik Nurakynov 博士，巴基斯坦伊斯蘭堡 COMSATS 大學氣象系主任 Muhammad Imran Shahzad 博士。

在討論中，四個國家的專家更多互相分享了彼此對外國人進入本地測繪市場的看法。四個國家皆指出現時國內都部署了不同的測繪學府，各國的有志之士都可以通過學術交流的方式到本地進行測繪技術交流。但相對學術界別，各地的測繪市場都有不同程度的法規限制，外國人需要一定程序才可以進入本地測繪市場從業。整個會議吸引了超過 200 人次收看。

是次研討會匯集了四個國家專家代表的意見，實屬難得，由香港特別行政區政府「專業服務協進支援計劃」資助，加強了香港測繪專業與一帶一路沿線國家測繪專業的交流合作，提高了各國測繪行業的合作層次，為提高香港以及一帶一路沿線地區的測繪水平作出了貢獻。



圖一：熊偉主任分享中國測繪現況。



圖二：哈薩克斯坦專家分享當地測繪現況。

DIVISIONAL NEWS & ACTIVITIES

組別簡訊

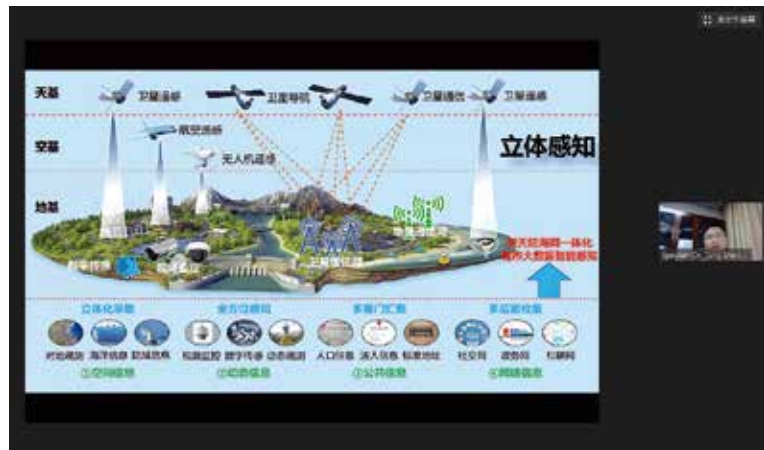


圖三：各國專家大合照。



Dr Tang Sheng-jun, Assistant Professor, Shenzhen University

Dr Tang showed some typical applications for transportation and urban management.



Conventional Data Capture of 3D Spatial Data

Virtual City Environment Reconstruction and Applications

With its fusion of social, physical, and informational space, a smart city should solve the problems of traditional urban management and governance. A virtual city environment serves as a template for smart cities and should be able to combine the multi-source data that the city generates daily.

Dr Tang Sheng-jun of Shenzhen University shared with HKIS members the ways city data are integrated into a 3D city model in his online CPD on 17 September.



3D City Model of Shenzhen

boundary re-establishment approaches. Dr Zhang also shared his views on several scenarios in which a boundary re-establishment service was required for “smart-ready” cities.



Low-cost Indoor 3D Scanner

Mode of Modelling and Visualisation in the Era of Digital Twinning

Boundary Re-establishment in the Era of Digital Twinning

In the era of digital twinning, modelling and visualisation of what can be done (rights), cannot be done (restrictions), and must be done (responsibilities) for land compels a paradigm shift in the practice of land surveying. The proliferation of BIM and 3D cadastral further shifts the focus from land parcels to property objects.

Dr Zhang Hao-dong introduced various land and cadastral boundaries during his online CPD on 17 September. These included selected boundary dispute cases involving different



Group Photo with Dr Zhang Hao-dong (2nd from right)