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THE HONG KONG INSTITUTE OF
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香港測量師學會

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Sr K K CHIU

Although the city is besieged by a new wave of COVID-19, I am confident that we are approaching the end of the tunnel after the engagement of mainland expert teams and resources. Guided by science and facts, I urge our members to get vaccinated as soon as possible. To play our part in controlling the pandemic in Hong Kong, the HKIS will roll out a programme to promote COVID-19 vaccinations for our members in due course. Please stay tuned. It is vital to protect yourself and the people around you!

Submission of Suggestions for Hong Kong Budget 2022-23

We play a consultative role in government policy making and issues influencing our profession and the community. Prior to the Budget Speech on 23 February, we submitted seven suggestions to the Financial Secretary of the HKSAR, Mr Paul Chan Mo-po, for his consideration. We are glad to see some proposed policies to relieve people's hardship, accelerate land and housing supply and increase building capacity. We shall continue to work with the government in putting the policies into practice, and filling in the missing parts.

In particular, to contain the spread of virus we further suggest an extension of the Building Drainage System Repair Subsidy Scheme to provide necessary support to owners, especially those whose

buildings are 40 years or older. Furthermore, we hope that the government will provide subsidies to qualified property management companies to equip themselves with sufficient cleaners and utensils. For those buildings lacking professional property management services, the government should consider subsidising owners for the cleaning and sanitising services by qualified service providers in the near term, and make professional property management mandatory in the long run. We also hope that the government will broaden the scope of the Anti-epidemic Fund and Employment Support Scheme to include affected surveying and construction firms.

As for the land and housing policy, we are pleased that the government is to put the greatest effort in expediting land supply for both public and private housing. Nonetheless, we believe the increased land supply is still running short of market demand. We recommend the government consider extending the standard rate land premium mechanism to all agricultural lands in the New Territories, as well as speeding up the process of lease modification and land exchange applications.

On the other hand, we welcome the improvement of the Mortgage Insurance Programme for first-time homebuyers. To promote home ownership, we suggest an expansion of the Starter Homes Pilot Project for Hong Kong Residents and setting up a second mortgage fund that provides preferential interest rates for eligible residents. We believe these measures would greatly alleviate first-time homebuyers' financial burden.

Last but not least, as we foresee a number of sizeable infrastructure projects will be in place in the near future, work force in construction and surveying industry are in hot demand. The Budget's allocation

of HK\$1 billion to the Construction Industry Council for manpower training is encouraging. We hope the government will also consider putting resources into training surveyors to deal with the shortage, and essential for the sustainable development of the industry.

Strategic Plans and Direction Set in Stone

Our annual retreat took place in late January in virtual format, at which the General Council and committee laid down four core areas for the betterment of the surveying industry:

1. our existing Land Policy Panel will dig deeper on the Lantau Tomorrow Vision and the Northern Metropolis Development Strategy. In this way, the HKIS will be able to respond instantly with commentary when the government announces policy updates on both;
2. our Housing Policy Panel will provide constructive comments on and proposals for the increase of housing supply;
3. the Buildings Policy Panel will work on ways to improve piping and drainage, and the redesign of old buildings for safe and comfortable living; and
4. we will form a new working committee on real-estate sustainability, which is in line with President Xi Jinping's 14th Five-Year Plan and Chief Executive Carrie Lam's pledge of carbon neutrality in Hong Kong by 2050.

In the years to come, sustainability will be a strategic priority for the Institute. We will set up professional standards on real-estate sustainability for the surveying and construction industries through

our Divisions. Members are required to follow the standards and we will walk hand in hand with our community in this momentous journey towards a green and sustainable future.

Publicity to Promote the Surveying Profession

I had the opportunity to speak to the Sing Tao Daily about surveying, with the aim to enhance public perception and awareness of our profession. I referred to my industry experience of over 30 years to highlight the nature of the job, its different fields, and the various paths to joining the industry. The article was published on 15 February. I also spoke specifically about the General Practice (GP), since this is my speciality, and shed light on the differences of a GP in the Civil Service and in the private sector, including pay scales, training, and career development and prospects.

I also stressed the importance of the government's support and allocation of resources to increase the intake of surveying students at universities. For newcomers to our industry I gave tips, such as the need to familiarise themselves with government policy and industry needs as well as the importance of continuous professional education for long-term professional career development and advancement. Finally, I advised practitioners in our profession to tap into the emerging opportunities in the Greater Bay Area, and use this dynamic, high-growth region to boost their credentials, social and business networks.

Mutual Recognition between HKIS and RICS

On 24 January, the HKIS and the Royal Institution of Chartered Surveyors (RICS) signed a memorandum of mutual recognition of membership covering planning and development, after months of preparation.

This enables both organisations to share the latest expertise, best practices, professional methodology and standards under our Planning and Development divisions. Looking ahead, the HKIS will explore all avenues to expand our ties with international counterparts and connect our members with overseas professional bodies, empowering them to unlock opportunities in the international arena.

A Little Sunshine

Last but not least, I would like to call to your attention to the upcoming launch of Minxin Hong Kong School (Guangzhou Nansha), a non-profit boarding school founded by our past Chief Executive, Mr C Y Leung, Vice-Chairman of the National Committee of the Chinese People's Political Consultative Conference (CPPCC) and also President of HKIS in 1995-96. The school will be opened in September 2022, offering through-train primary and secondary education for students of Hong Kong and non-mainland Chinese nationalities. The school will be one of a kind in nurturing trilingual students, bearing the tri-vision of "Roots in Hong Kong, a heart for China, a global outlook" (香港根、中國心、世界觀), while paving the way for Hong Kong-Guangzhou integration. We look forward to the school opening and anticipate the benefits it will bring to coming generations! For more information, please click <http://www.minxinnansha.org/>.

Sr K K Chiu
President

雖然香港正面臨 2019 - 冠狀病毒病的衝擊，但隨著內地專家團相繼加入香港抗疫隊伍，我有信心，困難的時期即將結束。我敦促各位成員儘快接種疫苗。為協助本港控制疫情，學會將會適時推出計劃，推動會員接種疫苗，請大家繼續關注。目前，保護好您自己和周圍的人，尤其重要！

針對 2022-23 年度財政預算案的建議

學會繼續為影響我們的行業及重要社會事務的政策制定，積極擔當諮詢角色。在財政預算案編制階段，我們向財政司司長陳茂波先生提交了七項建議，供其參考。我們很高興看到預算案包含了一定篇幅，緩解市民的困難、加快土地及房屋供應，並提高發展建設效率。我們會繼續與政府緊密合作，把這些政策付諸實施，並努力完善其他不足之處。

為了遏制新冠病毒的傳播，我們建議延長「樓宇排水系統維修資助計劃」，為老舊樓宇的業主提供所需支援，特別是樓齡達 40 年以上的樓宇。此外，我們希望政府為合資格的物業管理公司提供資助，使其配備充足的清潔員工及用具。對於缺乏專業物業管理服務的樓宇（即：三無大廈），政府應考慮在短期內資助小業主聘請合資格的服務供應商提供清潔及消毒服務，並在長遠上強制推行專業物業管理。我們亦希望政府能擴大「防疫抗疫基金」及「保就業計劃」範圍，使受影響的測量及建築公司亦能參與其中。

在土地及房屋政策方面，我們很高興政府銳意投入最大努力，盡快提供更多土地興建公營及私營房屋。然而，按照目前的計畫，我們認為仍不足以滿足需求。我們建議政府考慮把標準地價機制擴展至新界的所有農地，並加快契約修訂及換地申請的程序。

另一方面，我們歡迎為首次置業者改善按揭保險計劃。為了促進自置居所，我們建議擴大「港人首次置業先導項目」，並設立二按基金，為合資格的居民提供優惠利率。我們相信，這些措施會大大減輕首次置業者的經濟負擔。

最後，隨著眾多大型基建項目即將展開，我們預計對建築及測量人員的需求亦會隨之增加。政府財政預算案撥出港幣 10 億元予香港建造學院進行人力培訓，令人鼓舞。我們希望政府亦

能考慮把合適資源投放至測量師的培訓，以應對專業人才短缺的問題，這對於行業的可持續發展尤為重要。

學會策略計劃及方向

我們的年度退修會已於一月下旬以虛擬形式舉行，在會上，理事會及委員會制定了四個核心領域，以促進測量行業的發展：

1. 我們現有的土地政策小組會深入研究「明日大嶼願景」及「北部都會區發展策略」。因此，每當政府公布這兩項重大工程的政策諮詢和工作進展時，學會可即時作出回應，提供意見；
2. 我們的房屋政策小組會就增加房屋供應提供建設性的意見和建議；
3. 建築政策小組會研究如何改善管道及排水系統，以及如何改造和修繕老舊建築，協助居民實現安全及舒適的生活；以及
4. 我們會成立一個全新的房地產可持續發展工作委員會，以響應國家主席習近平在十四、五規劃的提倡，以及行政長官林鄭月娥的服務承諾，務求於 2050 年前實現香港碳中和。

在未來幾年，可持續發展將會是學會的策略重點，我們會通過轄下專業組別為測量及建築行業制定關於房地產可持續發展的專業標準，作為會員守則，與社會各界攜手合作，共同邁向綠色及可持續發展的未來。

媒體宣傳工作

近期，我有機會接受《星島日報》的採訪，內容談及測量工作，希望能藉此加深公眾對我們行業的認識。我分享了自己 30 多年來從事測量工作的經驗，介紹了專業工作的性質、範疇領域以及入行的各種途徑。文章於 2 月 15 日刊

登。基於我產業測量的背景，我特別闡述了產業測量在公務員系統及私營機構的不同之處，包括薪酬等級、培訓機會、職業發展及前景等。此外，我亦強調了政府必須增加資源，支持大學測量專業收生的重要性。同時向新入行人士提供一些建議，例如他們需要熟悉政府政策及行業需求，以及持續專業教育對長期職業發展及晉升的重要性。最後，我建議從業員捉緊大灣區發展中湧現的機會，好好利用這個充滿活力、高速增長的城市群以豐富其個人履歷、擴闊社交及商業網絡。

學會與 RICS 的資格互認

經過數月的籌備，我們與英國皇家特許測量師學會於 1 月 24 日完成簽署規劃及發展會員資格互認備忘錄。今後，兩間機構得以分享規劃及發展組旗下的最新專業知識、經驗以及行業守則和標準。展望未來，學會將會探索各種途徑，擴大與國際同業的聯繫，並把會員與海外專業團體聯繫起來，使他們能夠在國際舞台上開拓商機。

一點陽光分享

最後，與大家分享一則訊息。由全國政協副主席、前特首和本會前會長 (1995-96) 梁振英先生牽頭成立的「廣州南沙民心港人子弟學校」將於 2022 年 9 月開學。學校以培養學生「香港根、中國心、世界觀」的大格局思維為辦學宗旨，期望下一代不囿於地域，融入國家發展大局，學以致用，貢獻所長。這所非牟利寄宿學校，將為港人子女及其他非內地戶籍學童提供中小學 12 年制一條龍的優質教育。學校將提供香港及國際課程，採用「兩文三語」教學，為學生提供多元升學途徑。如欲了解學校更多資訊，可瀏覽學校官網：<http://www.minxinnansha.org>。

會長
趙錦權測量師



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Integration of geospatial and built environment

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Since the Government renewed the Smart City Blueprint for Hong Kong in 2020, geospatial data is fast becoming an essential infrastructure for developing smart-city solutions. However, a coherent geospatial data infrastructure is needed as the backbone for the smart city. The diversity, scope and complexity of data sets present a growing challenge since they cover many sectors, take many forms and are supplied by many organisations.

Importance of open data sharing and collaboration

Therefore, the opening and sharing of geospatial data through a common platform are critical to whether we can build a truly interconnected smart city, says Sr YC Chan, Head of the Spatial Data Office, Development Bureau and Council Member of the HKIS Land Surveying Division.

The Government is developing the Common Spatial Data Infrastructure (CSDI) and its Portal to facilitate the integration, exchange and sharing of spatial data. The Portal aims to provide government departments and public and private organisations with an information infrastructure to promote the sharing of geospatial data and support the development of smart-city applications.

The data sets supplied by different government departments to the CSDI Portal will be geo-tagged. They are accompanied with their metadata documents and data specifications in open and machine-readable formats with Application Programming Interfaces (API) to facilitate software and app developers to retrieve spatial data.

The Government is taking the lead to establish a 'geospatial data store' with a growing number of data sets and various digital platforms and applications such as District-based Spatial Information Dashboard, Geo-tagging Tool, GeoInfo Map, Geospatial Information Hub and digital maps, he says. Hopefully, these would help unlock the power of location intelligence and fuel data-driven innovation by connecting start-ups with established corporations

in the building and construction sector.

He likens the geospatial data store to a supermarket stocked with many different ingredients providing a great base to inspire great dishes. "This leads to experimentation with new recipes. The innovative use of citywide geospatial data allows creative minds to come up with innovative solutions that sometimes exceed our expectations."

Many more companies now utilise 3D city models developed by LandsD to create innovative applications. Chan says he was approached by a game developer formed by several young adults for help in formulating 3D models of Hong Kong streets to build their game engine for drifting along the roads in a virtual 3D environment.

Located in Kwun Tong, the Geospatial Lab is a creative space providing tools and resources to facilitate innovative youngsters, tech ventures and building professionals to explore and develop innovative use cases.

From time to time, seminars/webinars, workshops and competition(s) are held to inspire and encourage students and youngsters to develop map-centric applications that chain up different location-related incidents, multimedia content, and narratives about an event or phenomenon in Hong Kong.

"We should develop creativity in teenagers and young adults by fostering their natural curiosity, inventiveness and exploration," he says.

Sr Chan recalls that a group of primary school students came up with a story map web page that would track the locations of recycling bins and analyse how they should be positioned to make it more convenient for people. The information could then serve as options about the best places for recycling bins.

He says geospatial data, combined with census data, can help analyse the spatial distribution of the elderly population and decide where to allocate healthcare and elderly care resources. And as the popularity

of electric vehicles (EV) grows, stakeholders like planners, developers, EV manufacturers could use a geospatial data fusion approach with spatial statistics to identify the optimal EV charging hotspots provided the data like customers and potential customers' profiles, and other useful information is 'geo-tagged' in order to simplify the analysis.

"There are countless potential geospatial data applications, but this needs support from and collaboration among many different stakeholders. That's why we are in constant touch with universities, professional bodies, industry participants, quasi-governmental bodies and innovation hubs such as Science Park and Cyberport to brainstorm potential synergies."

Land surveyors become geospatial experts

Geospatial technologies are a critical component of smart city operations, with precise mapping data being used before, during and after a construction project, says Sr Thomson Lai, Asia Digital Leader at AECOM and a land surveyor.

"Geoconstruction technologies use data from a wide range of data sources, from the exact locations of underground utilities and geotechnical site characterisation to the environment of the site to influence the design and construction of an infrastructure or a building to save time, money and reduce waste."

Geoconstruction is the convergence of Building Information Modelling (BIM) and Geographic Information System (GIS), which has become a transformative force throughout the construction lifecycle, he says.

"They enable people from different segments of the construction lifecycle to share a common picture of the project. The effective combination and application of BIM and GIS have become a strong support for various applications of construction project information management."

The construction lifecycle can be broken down into four major phases: initiation planning, design, construction and operation. For example, during the preliminary study, the project team would look at terrain and surroundings, where LiDAR laser scanning comes in.

Drones survey can help the project team acquire geospatial data on the true surface of the natural terrain, even if they are in inaccessible or densely forested areas. When it comes to detailed design, for example, foundation design, ground engineering, the geospatial data required have to be more accurate to ensure safety, he explains.

Sr Lai says the rapid development of artificial intelligence (AI) has made it possible to automate repetitive, tedious tasks. For example, pavement tends to deteriorate as time goes by due to weather conditions and ground movements. Efficient and timely road inspection is one of the key elements of a successful pavement management system.

However, periodic human visual inspection is costly and time-consuming. The use of AI in defect detection is gaining ground. The AI engine is first trained on thousands of images to distinguish defective pavement from acceptable road surfaces. The AI engine then learns from the manually annotated data to distinguish different types of road defects on new images taken regularly.

He says the convergence of BIM, GIS, Internet of Things (IoT), AI and machine learning is accelerating the digital transformation of the ways infrastructure and buildings are designed, constructed and maintained.

Nowadays, the role of land surveyors does not end by simply measuring and marking the boundaries of a given site. The role has expanded to become geospatial experts entrusted with providing accurate geospatial information required and formulating geospatial solutions throughout the development cycle. This is the view shared by Sr Chan and Sr Lai.

Dynamic geospatial data for building management

The Urban Renewal Authority (URA) is one of the geospatial data contributors to the geospatial data store by sharing its operational data, such as information on redevelopment and cost reference data of building rehabilitation projects, with the platform. Not only that, but the URA has also developed an Urban Renewal Information System, which is connected to the CSDI portal, to facilitate planning and redevelopment work.

Sr Louis Lee, General Manager, Building Rehabilitation at the URA and Council Member of the HKIS Property and Facility Management (PFMD) division, says the integration of static and dynamic information from buildings to the open geospatial data system is the prerequisite for developing a smart city and also an inevitable tendency for property and facility management practitioners.

"The rush to build web portals in the early dot-com era in the 1990s is a great example of how people are exploring a new technology. Everybody knew that the Internet would be the next big thing, but at that time, people didn't know how it would change the world," says Sr Lee. "It's what is happening now as 5G and geospatial data meet the built environment."

Building management system, or BMS, has been in use for decades. It integrates all operational data from different building facility systems. A BMS can monitor and control a facility's temperature, lighting, and HVAC equipment in real-time.

While data integration is essential for making these subsystems work smarter together, it is challenging to achieve because different manufacturers create the data sets with different formats. "Moreover, the data integration across GIS, BIM and BMS is not mature yet. The legacy systems are not compatible with each other yet," he says.

In the way that GIS and BMS can combine to create more powerful building management solutions, they

can also be combined to create smart-city solutions. For example, when detecting a fire, the BMS of a particular building can send fire alerts to the central GIS and disseminate alerts to nearby buildings so that their building managers can adopt precautionary measures at once. However, this use case has not been made possible due to system and data incompatibility.

Another obstacle is a lack of motivation to upload their building information to the GIS. Hong Kong is a highly urbanised city requiring a 3D map as base to develop a more comprehensive GIS model for storing building information. However, it raises cost and privacy concerns.

"At the moment, the cost of processing and integrating the wide variety and a large amount of building data outweighs the benefits of doing these for the building owner. That's why the URA has sponsored a pioneer study to look into how changes in gross floor area (GFA) could be calculated on a BIM platform and what cost benefits this automation provides."

Despite the challenges, Sr Lee is optimistic about the potential of applications that integrate geospatial and building data. "I believe smart people would know how to take full advantage of this opportunity that arises, like the achievements made by Google and Amazon."

The rise of 'proptech' companies has the potential to disrupt the property development cycle by enhancing tenant services, improving facility management and saving more energy by integrating GIS and building information.

"As Hong Kong heads towards the Smart City Blueprint 2.0, the data architecture being developed has to address this lack of interoperability. Ensuring compliance, privacy, security, integrity, availability, and quality of data also needs to be considered by decision-makers."

融合地理空間與建築環境

自政府於 2020 年更新《香港智慧城市藍圖》以來，地理空間數據正迅速成為開發智慧城市解決方案最重要的基建之一。地理空間數據必須彼此之間及與智慧城市系統做到互聯互通，才能打穩根基。可是，鑒於數據多樣複雜，範圍廣闊且涵蓋許多不同專業領域，要做到數據互通，平台互通，需要各方共建一個合作生態，這也是政府和行業亟待解決的事情。

開放數據共享和協作的重要性

發展局空間數據辦事處總監及土地測量組理事陳宇俊測量師表示，透過共同平台開放和共用地理空間數據，對於我們能否建立一個真正互聯互通的智慧城市至關重要，故此，政府正在建立空間數據共享平台 (CSDI) 及其入門網站，為政府部門及公私營機構提供資訊基建，以整合、互通和共享地理空間數據，推動香港的智慧城市發展。

他解釋說，政府部門提供給 CSDI 入門網站的數據集將會帶有地理標記，並附有元數據 (metadata) 文檔和規範，轉換為開放及機器可讀格式，並透過應用程式介面 (API) 開放予公眾特別是軟件和應用程式開發人員擷取使用。

他說，政府正帶頭建立一個「地理空間數據超級市場」，附載著持續擴充的數據集、各種數碼平台和應用程式，如城市儀表板、地理標記工具、地理資訊地圖、地理空間資訊樞紐和電子地圖等，這些舉措有望釋放民間創新智慧力量，推動初創和業界創新。

他將其比喻為數據超級市場，裡面擺放著許多不同的食材，讓大眾發揮創意煮出美味佳餚。「此舉有助進行料理實驗，開發新食譜。一些由創意人才善用地理空間數據而啟發出來的各種創新應用方案，比我們原先想像的更具創意。」

現時，越來越多公司都利用由地政總署開發的 3D 城市模型來開發應用程式。他舉例說，近月便獲一家本地由幾位年青人創立的遊戲開發初創查詢以取得香港街道 3D 模型，為他們的遊戲引擎提供香港街道賽車飄移實境。

地理空間實驗室位於觀塘，提供創意工具和資源，以促進具創新思維的年輕人、科技企業和建築專業人士

探索和開發創新用例。地理空間實驗室不時舉辦講座、工作坊和比賽，鼓勵學生和年青人開發以地圖為中心的應用程式，將所有事件、多媒體和有關香港事件或現象，以互動方式串聯起來。

「其實，十多二十歲的年青人有很高的創造力甚至解決問題的技能，我們應該抓住青少年和年輕人的創造力，培養他們天生的好奇心、創造力和探索能力。」他說。

陳宇俊測量師透露，曾遇到一班小學生，建立了一個全港回收箱位置模擬網站，查找各區回收箱的位置，並協助分析針對市民需要的回收箱地區分佈方案以作選項。

他續說，地理空間數據與人口普查數據相結合，可協助分析老年人口的空間分佈，決定在哪裡分配醫療和老人護理資源。隨著電動汽車普及，規劃者、發展商、電動汽車製造商等利益持份者，可以地理空間數據結合空間統計，來確定最佳的電動汽車充電熱點位置。前提是要簡化分析，數據包括客戶和潛在客戶的人口概況及其他有用資訊須被「地理標記」出來。

「地理空間數據有無數的潛在應用場境，但這需要許多不同持份者的支持和協作。因此，我們不斷與大學、專業團體、業界、半政府機構以及科技園及數碼港等創科中心保持聯絡，集思廣益，探討潛在的協同效應。」

土地測量師成為地理空間專家

AECOM 亞洲數碼團隊負責人黎文傑土地測量師表示，地理空間技術是智慧城市的重要組成部分。目前，建築及工程業界在項目之前、期間和之後都會應用到精確的測繪數據。

「地理建築技術利用來自各方收集得來的數據點，例如地底公用設施、岩土工程場地勘察、施工地盤周邊的環境等，協助基建或建築物設計和施工，以節省時間、金錢和減少浪費。」

他說，地理建築技術由建築資訊模型 (BIM) 和地理資訊系統 (GIS) 結合得來，是整個建築生命週期的變革力量，使來自施工生命週期不同階段的團隊成員，能

同步共享建築工程信息，而 BIM 和 GIS 的有效結合和應用，正成為工程項目資訊化管理各種不同應用提供強而有力的支援。

建築生命週期可以分為四個主要階段：初期規劃、設計、施工和營運。例如，在初步研究期間，項目團隊將查看地形及周邊環境，現時很多已採用了激光雷達（LiDAR）來獲取測量數據。

由無人機進行的空中測量，能幫助項目團隊獲取地形的地理空間數據，在無法進入或林木茂密地區更大派用場。當涉及到詳細設計時，例如地基設計，在岩土工程勘測工作中的測繪工作就需要更精準的屬性數據。

黎文傑測量師說，隨著人工智能快速發展，現今科技已可取代一些重複繁瑣的人手工作。例如，馬路路面會隨時間因天氣和道路使用量而損毀，以往有需要派員定期檢查路面情況和作出判斷。

然而，定期派員目測既昂貴又耗時，相反，人工智能就能從數以千計的道路圖像中學習，成熟後就能把有缺陷的路面和可接受的路面區分出來。及後，維修人員只要在道路上大量拍照，照片在輸入系統後，系統便能在大量照片中識別出不同類型的道路損毀情況。

他說，BIM、GIS、物聯網（IoT）、人工智能和機器學習的融合，正在加快基建和建築設計、建造和維護方式的數碼轉型。

陳宇俊測量師和黎文傑測量師均認為，現今土地測量師的角色，已不僅限於測量和標記產業邊界，更已成為地理空間專家，負責在整個施工週期內，提供所需的準確地理空間資訊並制定地理空間解決方案。

用於樓宇管理的動態地理空間數據

市區重建局是空間數據共享平台數據提供機構之一，透過平台發放其運營數據，例如：已重建項目資料及樓宇復修成本數據等。不僅如此，市建局還開發了一



套以 GIS 技術為基礎的「市區更新資訊系統」，並從 CSDI 擷取地理空間數據，以促進規劃和重建工作。

市建局樓宇復修總經理、學會物業及設施管理組理事李文豪測量師表示，將樓宇的靜態和動態資訊整合到開放的地理空間數據系統，是發展智慧城市的先決條件，也是物業和設施管理行業的大勢所趨。

他說：「在 90 年代早期的互聯網時代，大家都一窩風搶著去建立入門網站，當時大家都意識到互聯網將會引領世界到一個新世代，但也料不到今天的成就。現時，5G 網絡及地理空間數據與建築環境的結合，有機會催生出前所未有的創新。」

樓宇管理系統（BMS）面世至今已有幾十年，集成來自不同建築設施系統的所有操作數據。BMS 能夠即時監測和控制設施的溫度、照明和空調設備。

數據和系統要做到互連互通，不同系統才能產生最大的協同效應，但因為數據由不同的製造商以不同的格式創建，要實現互連互通，具有相當挑戰性。再者，現時 GIS、BIM 和 BMS 之間的系統數據還未能真正彼此相容。

只要 GIS 和 BMS 無縫結合起來，不但能強化樓宇管理，還可以創建智慧城市解決方案。例如，當某幢樓宇的系統檢測到火災時，能向中央 GIS 平台發送警報，並通知附近建築物的管理人員，立即採取預防措施。但是，由於系統和數據互不相容，此用例尚未實現。

另一個障礙是業主及管理人員缺乏將其建築物資訊上傳到 GIS 的動力。香港是一個高度城市化的城市，需要全面的 3D 地圖來開發更全面的 GIS 模型，才能儲存海量複雜的建築資訊。但是，它亦會衍生出成本和隱私問題。

「目前，對個別業主來說，要處理和整合各種和大量的樓宇數據，成本超過這樣做的好處。有見及此，市建局贊助了一項研究，探討如何在 BIM 平台上計算總建築面積的變化，以及這項功能的成本效益有多大。」

儘管存在上述挑戰，但李文豪測量師對結合地理空間和樓宇數據的應用程式的潛力持樂觀態度。「我相信聰明的人會知道如何充分利用這個機會，就像谷歌和亞馬遜今天的成就一樣。」

嶄露頭角的「PropTech」公司，更有可能透過結合 GIS 和樓宇數據，增強租戶服務，改善設施管理，節省更多能源，甚至為整個房地產開發周期帶來顛覆性的改變。

「隨著香港邁向智慧城市藍圖 2.0，正在開發的數據架構必須解決這種互操作性不足問題。確保數據的合規性、私隱性、安全性、完整性、可用性和數據質素，全都是考慮條件。」他總結道。



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国内新闻分享

加速发展步伐 促进行业升级—— 各地积极开展绿色建筑创建行动观察

北京冬奥会已经闭幕，在日前举行的“美丽中国·绿色冬奥”专场新闻发布会上，相关负责人表示，中国政府全面落实“绿色办奥”举措，充分改造利用鸟巢、水立方、五棵松体育馆等原有奥运场馆，新增场地从设计源头减少对环境的影响，国家速滑馆“冰丝带”成为世界上第一座采用二氧化碳跨临界直冷系统制冰的短道速滑馆，碳排放趋近于零，冬奥会全部场馆达到绿色建筑标准。

近年来，全国各地坚持政策指导、技术先导、示范引导，绿色建筑发展取得了显著成效。今年1月20日召开的全国住房和城乡建设工作会议明确提出，2022年将持续开展绿色建筑创建行动。

政策推动 不断提升占比

为推进碳达峰、碳中和目标实现，2021年印发的《中共中央国务院关于完整准确全面贯彻新发展理念做好碳达峰碳中和工作的意见》中提到，实施工程建设全过程绿色建造；大力发展节能低碳建筑，持续提高新建建筑节能标准，加快推进超低能耗、近零能耗、低碳建筑规模化发展；全面推广绿色低碳建材，推动建筑材料循环利用等。2021年10月，中办、国办印发《关于推动城乡建设绿色发展的意见》提出，加强财政、金融、规划、建设等政策支持，推动高质量绿色建筑规模化发展，大力推广超低能耗、近零能耗建筑，发展零碳建筑。

岁末年初，各地纷纷印发相关政策， 推动“十四五”时期绿色建筑发展。

为持续开展绿色建筑创建行动、推进绿色建筑规

模化发展，湖北省荆州市出台的《“十四五”建筑节能与绿色建筑发展实施意见》提出，到2025年，全市城镇新建建筑100%执行绿色建筑标准，其中星级绿色建筑占比达到20%，城镇新建建筑节能水平比2020年提升15%，城镇新建建筑绿色建材应用比例达50%，新型墙体材料应用率达到97%以上。在“十三五”期间，荆州市城镇新建民用建筑全部执行国家和湖北省现行节能标准，新增节能建筑面积1652.09万平方米，新增建筑节能能力26.18万吨标准煤。

广东省惠州市也印发实施方案，明确重点实施工作任务，并提出惠州市绿色建筑创建行动目标，即2022年和2023年城镇新建民用建筑中绿色建筑占比分别达到80%、90%；到2023年，全市新建成民用建筑按一星级及以上标准建设的绿色建筑面积占新建建筑比例达到35%。

天津市滨海新区在《建筑节能和绿色建筑发展“十四五”规划》中提出，到2025年，当年城镇新建建筑中绿色建筑面积占比达到100%。到2025年，当年城镇新建建筑中一星级及以上的绿色建筑面积占比达到60%以上，二星级及以上的绿色建筑面积占比达到30%以上，三星级的绿色建筑面积占比达到5%以上。

技术创新 发展绿色建筑

创新是行业的生命力，各地在绿色建筑创建规划中，多次提出推广应用自然通风、室内除湿、自然采光、隔声降噪、建筑遮阳、雨水利用、余热利用、水源热泵及空气源热泵技术等可再生能源，引领技术创新，促进绿色建筑高品质高质量发展。

使用轻型光伏墙体替代传统水泥墙体，1155块薄膜光伏组件在阳光下熠熠生辉，预计年发电量可达7.5万千瓦时，满足建筑30%至40%的用电需求——在位于北京市昌平区的未来科学城，有这样一座身披蓝色光伏“外套”的房子。

项目建设方负责人说道：“外层是光伏幕墙，内层是保温透明玻璃，中间形成的封闭空腔可以进行取热利用。夏季光伏背板温度逐渐升高，导致

发电效率降低，这时自动打开百叶窗，室内温度降低；冬季将百叶窗关闭，空腔形成‘暖墙’，可降低室内热负荷。”

重庆市在绿色建筑“十四五”规划中提出，因地制宜建立可再生能源利用主要实施技术路径，推进可再生能源的深度及复合应用，探索在具备资源利用条件的区域强制推广可再生能源建筑应用技术的措施。强化可再生能源建筑应用项目实施质量，促进可再生能源建筑规模化应用。在城市大型商场、办公楼、酒店、机场航站楼等建筑推广应用热泵、电蓄冷空调等。结合气候、资源条件，因地制宜地开展建筑太阳能系统应用示范，推进城镇新建公共机构建筑、新建厂房屋顶应用太阳能光伏。围绕建筑能源清洁、低碳、高效利用目标，在建筑空调、生活热水等用能领域推广高效电气智能化应用技术与设备。

示范引领 促进转型升级

以试点示范先行、以点带面的方式，多地大力推动绿色建筑建设，实现跨越式增长。

在山东省青岛市，中德生态园作为中德两国政府重点合作项目，通过引入德国标准建设示范项目、对标德国理念实现技术突破、建立国内标准助推本土应用、加深国际交流搭建产学研体系等措施，推进超低能耗建筑发展，践行示范低碳减排的新发展理念。

在《青岛市“十四五”建筑节能与绿色建筑发展规划》中，提出将加大超低能耗建筑推广力度，以中德生态园被动房技术体验中心为代表，不断扩大被动式超低能耗建筑试点规模，并在新建城区内实施区域性推广，将崂山区、青岛西海岸新区、城阳区和即墨区四区作为超低能耗建筑重点发展区（市），累计实施 100 万平方米，并在上述四区内开展近零能耗建筑试点示范，示范面积各为 5 万平方米，共计 20 万平方米，可减少碳排放量 81 万吨。

雄安新区则围绕建设“绿色智慧新城”目标，全方位全过程推行绿色规划设计、绿色建造、绿色运

维、绿色生活，着力降低建筑能源资源消耗与碳排放，积极应对气候变化，助力碳达峰、碳中和目标实现，打造高质量绿色生态宜居新城区典范。

雄安新区管委会相关负责人表示，按照“绿色、智能、创新”要求，新区将高质量推动绿色建筑全面发展，推广新型绿色建造方式，促进绿色建材应用，建立绿色建筑高质量发展长效管理和市场机制，实现城乡融合，促进绿色建筑发展从“节能—零能—正能”到“全寿命期脱碳”的系统升级，形成“单体—街坊—社区—城区—城市”的绿色建筑创新性递进推广模式，高质量建成绿色智慧新城。

据介绍，雄安新区新建城镇建筑包括民用和工业建筑在内全面执行二星级以上绿色建筑标准，新建政府投资及大型公共建筑全面执行三星级绿色建筑标准，启动区、起步区等重点片区新建建筑力争达到国际领先水平。到 2025 年，集中连片建成高质量绿色建筑，绿色生态宜居新城区初步形成。

摘自：中国建设报新闻网
2022.02.21

作者：孙宇枫

更多测量相关的内地新闻资讯可于学会网页内浏览（每星期更新）：https://www.hkis.org.hk/en/newsroom_mainlands.html



北京办事处资讯

北京议会 CPD 讲座活动《中国绿色建筑的下一个 10 年 - 高质量、低碳、健康、以人为本》

北京议会与学会绿色建筑工作小组首次合作，于 1 月 18 日举办 CPD 讲座活动《中国绿色建筑的

下一个10年 - 高质量、低碳、健康、以人为本》, 本次活动邀请了张智栋博士担任讲者分享。张博士现为中国绿色建筑与节能委员会委员、中国绿色建筑与节能(香港)委员会常务委员、中国绿色建筑与节能(澳门)协会副理事长、香港中文大学兼职讲师(2016-2020)并任教绿色建筑技术硕士班课程。

张博士从三个方面, 包括「中国绿色建筑发展回顾(2006-2018)与新趋势(2019-2030)」; 「中国绿色建筑评价标识体系介绍(绿色建筑、绿色生态城区、健康建筑)」及「中国绿色建筑在香港的实践——三星级认证案例分享」, 与参加者共同探讨中国绿色建筑发展的最新趋势, 掌握最新2019年版本的国家《绿色建筑评价标准》核心理念和大纲。他亦分享了在香港实践和已经落成的三星级绿色建筑项目经验。是次活动令会员获益良多, 除了对内地绿色建筑评价标识及其运作体系得到更深入的认识以外, 更了解到内地最新绿色建筑发展。

2021-22 年度的会费缴纳

2021-22 年度的会费缴纳工作已经开始, 从4月中旬起, 香港测量师学会北京办事处已陆续向内地会员的个人邮箱发送电子版的缴费通知单和内地会员汇款方式信息, 请各位内地会员在收到缴费通知单后按照规定时间安排汇款。所有内地会员将统一汇款至北京办事处的对公账户。北京办事处交通银行的对公账户为境内人民币账户, 所以请各位会员在汇款时将账单港币金额换算成人民币金额汇款即可。会员在汇款时请务必按要求备注会员号和会员姓名, 汇款后将汇款凭证的扫描件和缴费通知单一并发送至北京办事处邮箱 info-bjo@hkis.org.hk。如有任何疑问请致电(86(10) 8219 1069) 或电邮(info-bjo@hkis.org.hk) 予北京办事处。

香港测量师学会在内地设有三个议会, 定时举办不同活动如讲座或考察, 请关注香港测量师学会微信公众号以获取更多活动资讯:

北京议会 - 主席: 胡煜琳测量师 副主席: 罗绮华测量师
 上海议会 - 主席: 张丽娟测量师 副主席: 梁傲文测量师
 广州议会 - 主席: 张子涛测量师 副主席: 李国华测量师

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HKIS' Suggestions and Views on 2022-23 Budget

The Financial Secretary, Mr Paul Chan, delivered his 2022-23 Budget to the Legislative Council on 23 February 2022. Its full text can be viewed and downloaded at the following website:

<https://www.budget.gov.hk/2022/>

The HKIS issued two media releases before and after the delivery, setting out its suggestions and views on various issues including land supply, housing and building policies.

Please refer to the link below for more details (Chinese only):

HKIS' Suggestions on 2022-2023 Budget

<https://tinyurl.com/y7u79gyg>



HKIS' Views on 2022-2023 Budget

<https://tinyurl.com/y9x2at3y>



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The HKIS Outstanding Dissertation Awards 2021- Results Announcement

The HKIS Research Committee has announced the results of The HKIS Outstanding Dissertation Awards 2021 (HKIS ODA2021).

The Awards comprise two categories: Outstanding Final Year Dissertation Awards and Dissertation/Thesis Awards for Postgraduate Students.

Outstanding Final Year Dissertation Awards

Outstanding Final Year Dissertation Awards are organised for final year undergraduate students taking HKIS-accredited first degree courses. Their purpose is to promote research amongst future surveyors and reward the efforts of the best students.

The Awards are based on research merit and the applicability of the student's research to the surveying profession. Having assessed the papers nominated by the students' universities, the panel of assessors awarded prizes to the following candidates:

Division	Award	Winner	School	Project Title	Supervisor
BSD	Top Award	Sharon LAM Suk On	The Hong Kong Polytechnic University (BRE)	An Empirical Study of the Provision and Evaluation of Barrier-Free Access (BFA) Facilities in Existing Revitalised Wet Markets in Hong Kong	Dr Daniel WM CHAN
BSD	Second Award	TSANG Bud Sane	City University of Hong Kong	Application of Heritage Building Information Modelling (H-BIM) to the Adaptive Reuse of Heritage Buildings in Hong Kong	Dr Ivan FUNG
GPD	Top Award	FAN Hoi Yan	The University of Hong Kong (REC)	The Impact of Covid-19 on the Indirect Real Estate Market: An Empirical Study from a Global Perspective	Sr Prof KW CHAU
GPD	Second Award	LI Yuen Tat	The University of Hong Kong (REC)	Application of Machine Learning to Property Valuation for Hong Kong Residential Units	Dr Frank Fan XUE
LSD	Top Award	SUEN Wun Ki	The Hong Kong Polytechnic University (LSGI)	Persistent Homology: Hole Detection in LiDAR Point Clouds Using Topological Data Analysis	Dr Wai Yeung YAN
LSD	Second Award	TAI Kai Wing	The Hong Kong Polytechnic University (LSGI)	GNSS Data Quality of Hong Kong SATREF Stations:	Dr Lawrence LAU
LSD	Second Award	WANG Jiaming	City University of Hong Kong	Opportunities and Challenges in the Integration of BIM and GIS for Infrastructure Projects in Hong Kong	Dr KIM Jung In
PDD	Top Award	Emily HO Yan Lam	The University of Hong Kong (REC)	A Study of the Effect of Factors in the Execution of the Wholesale Conversion of Industrial Buildings under the Revitalisation of Industrial Buildings (RIB) Scheme and its Policy Implications	Sr Dr Lennon HT CHOY
PDD	Second Award	KOK Leong	The University of Hong Kong (UPD)	Spatial-Temporal Walkability Analysis of the Multi-Level Pedestrian Network for Older Adults in Hong Kong	Dr Guibo SUN

Division	Award	Winner	School	Project Title	Supervisor
PFMD	Top Award	Eli CHENG Ho Yin	Technological and Higher Education Institute of Hong Kong (THEi)	Integration of BIM, IoT, and FM: Challenges and Opportunities	Sr Dr Ken CHAN
PFMD	Top Award	CHU Lai Ting	City University of Hong Kong	A Study of Green BIM Applications for Enhancing Sustainable Development:	Dr Calvin KEUNG
PFMD	Second Award	WONG Hok Wai	The University of Hong Kong (REC)	An Evaluation of Green Property Management Practices in Shopping Centres in Hong Kong	Dr KOH Tas Yong
QSD	Top Award	CHEUNG Hau Yin	Technological and Higher Education Institute of Hong Kong (THEi)	A Study of the Enactment of Security of Payment Legislation in Hong Kong's Construction Industry	Sr Prof Daniel HO
QSD	Top Award	KONG Pak Wing	City University of Hong Kong	Bespoke Contract Documentations for Modular Construction in Hong Kong	Prof CHEUNG Sai-On
QSD	Second Award	CHENG Pui Ying	City University of Hong Kong	A Study of New Engineering Contracts for Partner Relationships and Project Improvements	Sr Dr LEUNG Mei-yung
QSD	Second Award	LIN Chak Kwan	Technological and Higher Education Institute of Hong Kong (THEi)	The BIM-Enabled Digital Works Supervision System (DWSS) in Construction Supervision: An Empirical Study of the Impact of Site Performance	Sr Dr Ken CHAN
QSD	Second Award	WONG Lok Sum	The University of Hong Kong (REC)	Are Amendments and Additional Clauses to the NEC Necessarily Good? An Investigation of the Performance of NEC3 ECC Projects in Hong Kong	Dr Isabelle YS CHAN

Dissertation/Thesis Awards for Postgraduate Students

To promote research among the surveying industry, the Dissertation/Thesis Awards for Postgraduate Students are bestowed on the best research by master's and doctoral students that is innovative and potentially useful to the surveying industry. Having assessed the papers nominated by the universities, the panel of assessors awarded prizes to the following candidates:

PhD Category

Winner	School	Project Title	Supervisor
LEUNG Cheuk Fai	The University of Hong Kong (REC)	An Analysis of the Policy on the Revitalisation of Industrial Buildings in Hong Kong	Sr Prof KW Chau and Sr Prof Lawrence Lai

Master's Category

Winner	School	Project Title	Supervisor
CAI Qiying	The University of Hong Kong (UPD)	Multilevel Public Spaces 3D POSPD in Volumetric Urban Contexts Integrating Hybrid Public Spaces for the 21 st Century?	Mr Alain Chiaradia

Congratulations to all winners! The certificates and prizes will be distributed during the HKIS Scholarship cum Outstanding Dissertation Awards Presentation Ceremony in 2022.

Congratulations to the following who were elected as HKIS Members on 6 January 2022

MEMBER (76)

BS DIVISION

CHAN FONTANIA FONG TING	CHAN KA WAI	CHAN KIN HANG
CHAN LAP KEI	CHAN YIN TUNG	CHEUNG SO MAN
CHEUNG YUEN MING	HO KING WANG	IP PAN WAI
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LUI SHUK YING	LUI YAT LAI	NG CHEUK YI CHERRY
NG MAN YAT	NG SIU LAI	SHER TIN WAI
SIU KIT FONG	TAI YI NING	TSANG KING FAI
TSANG LAI KUEN	TSE CHI HANG	TSE KAI CHUNG
WONG CHING HO	WONG KWOK WAI	WONG WAI MAN
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CHO IAN HIN YANG	CHUNG MAN KI	HUNG LEONG MAN
LAI SUEN WAI	LEE CURTISE	LEE HO FUNG
LEE HO MING ALAN	LEE HOI KIT ALEX	LEUNG KA KI
LEUNG KAM KUEN	LEUNG YIN HANG	LI CHEUK YAN
LING WING YAN	LIU KING ON	LIU SUM MING
NG HANG KIN	PANG KA CHUN VICTOR	POK KWAN WING
TANG TIN LONG	TSANG CHUN WAI	TSAO CHIT LONG
WONG CHAU MAN	WONG KAM HEI	WONG LAI YAN
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LS DIVISION

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QS DIVISION

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TSANG CHIN FUNG	WONG HIU MAN	

RESIGNATION (7)

AU LUNG KWAN	CHENG HO WAI	CHEUNG CHI WANG
CHUNG LONG YIN	LAW SHUI YIN JANE	NG TING HO
YEUNG LAI KIT NATHAN		

Council Members Reaching Out

7 February 2022	Online Consultation Session on "Guidance Note (GN) on area calculations for General Building Plan Submission in Building Information Modelling Format" organised by Lands Department	Sr Arthur Cheung
15 February 2022	香港專業及資深行政人員協會舉辦「壬寅年線上新春團拜慶元宵」	Sr KK Chiu

“Sr” – The Abbreviation for Surveyor

“Sr” is adopted as the abbreviation for surveyor by The Hong Kong Institute of Surveyors. The pronunciation for “Sr” is “surveyor”.

In order to promote its use to the public, corporate members are encouraged to adopt the abbreviation “Sr” in front of their English names in their official communications. Likewise, corporate members are also invited to address themselves as “測量師” after their Chinese names.

“Sr” – 測量師的英文簡稱

香港測量師學會採納「Sr」作為「Surveyor」(測量師)的英文簡稱。其發音與 Surveyor 相同。

為向公眾宣傳「Sr」的用法，我們鼓勵正式會員在日常生活中，在英文名字之前加上「Sr」。至於中文方面，我們亦會邀請正式會員在其中文名字之後加上「測量師」。

Stay Vigilant and Stay Safe.

The HKIS General Council encourages all members and friends of the HKIS to be vaccinated for better protection.





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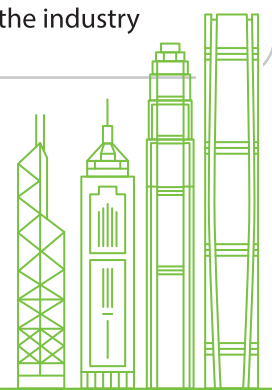


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Final Assessment Interviews

The final assessment day originally scheduled for 26 February 2022 has been postponed because of the latest pandemic developments. Having coordinated with the assessment venue, the BSD hopes that the FA can be held on 26 March 2022, subject to confirmation. Please stay tuned.

New Assessor Nominations

If you are a current assessor and know some members with five or more years of post-qualification experience who may be interested in joining the Panel of Assessors, please contact Ms Judy Shiu or Ms Vicky Chik at 2526 3679 to nominate them. The BSD's probationers and future surveyors need your continued support for the APC!

Career Talk to University Students

On 25 January, the BSD gave a career talk via Zoom to surveying students at CityU, PolyU's School of Professional Education and Executive Development (SPEED), THEi, and HKU.

It was the BSD's great honour to invite representatives of the Architectural Services Department, Buildings Department, and Housing Authority to come introduce to the students the training programmes, available jobs, and career prospects in the government sector after Peter's general briefing on the HKIS and the BSD. Carmen, Leonie, Coolidge, and Kenneth then regaled the students with their knowledge of the private sector and general interview tips.

Over 170 students joined this two-hour talk. Again, thanks go to the “校長” (Grace, Murphy, and Rebecca), graduates, speakers, and university lecturers/professors for contributing

to the success of the event! Hopefully all participants gained a better understanding of the surveying profession and will seek to become building surveyors!



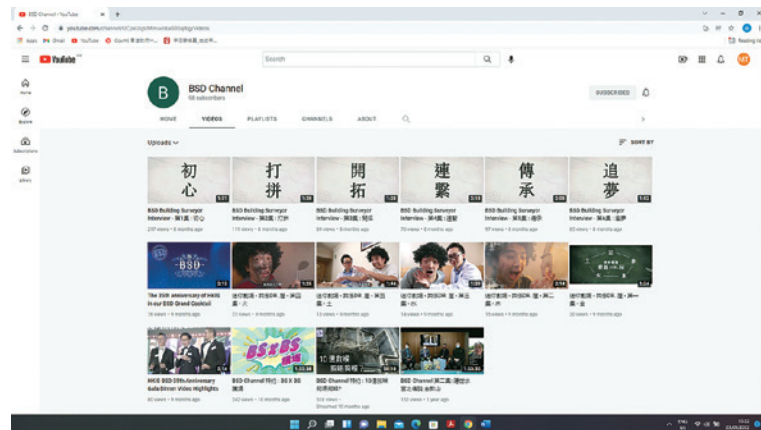
Subscribe to the BSD Channel to Win BSD Masks (Extended to 31 March 2022)

Now members can win five specially-designed masks with the BSD logo by simply subscribing to the BSD Channel (Youtube). Please e-mail your membership number with a screen capture showing your subscription with number of subscribers to hkisbsd2021@gmail.com. (No sharing of screen captures, please.) After confirming your membership, the BSD will post the masks to your correspondence address.

Youtube: BSD Channel
<https://tinyurl.com/yauuyvxx>

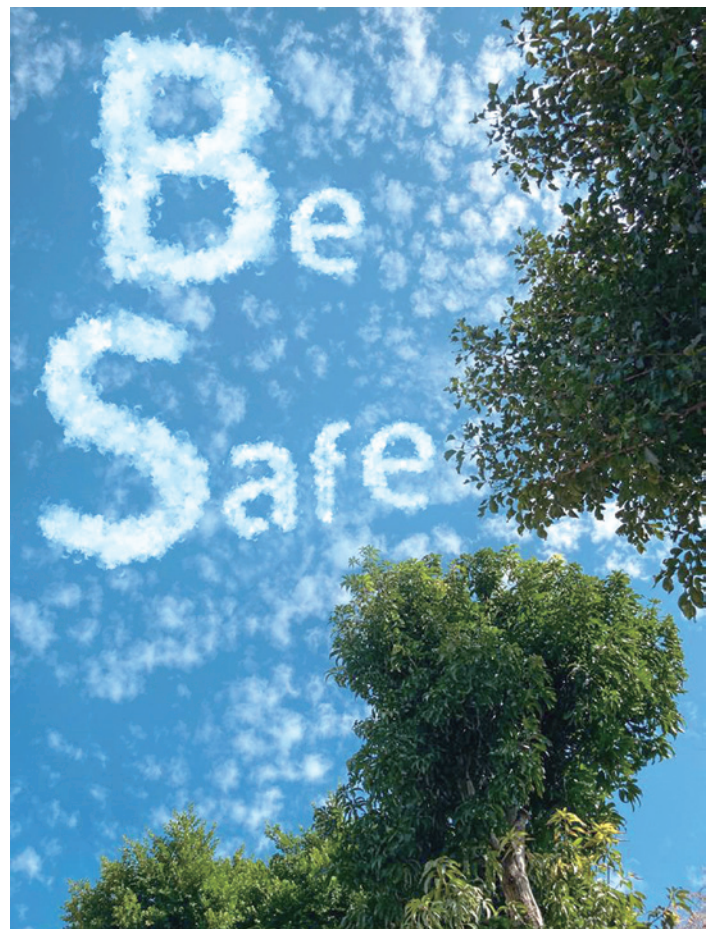


FIRST COME, FIRST SERVED
DEADLINE: 31 MARCH 2022
Random colour and for BSD Members and Probationers only!



Stay safe during Omicron

To all BSD members and probationers: stay safe during Omicron!





General Practice Division

Sr Alnwick Chan GPD Council Chairman

My message as GPD Chairman will be very brief this month. Despite the fact that most members have been adversely affected by the 5th Covid-19 wave, it appears that they have adapted to the new normal and the work-from-home arrangements seem to be functioning better these days.

Thanks go to the new technologies and hard work of surveyors. All LandsD offices will continue to provide basic public services, while the Lands Tribunal will continue to operate. Government staff are now equipped with laptops to carry out their daily tasks.

The GPD's council business also proceeds as usual. Working group meetings are mostly held via Zoom and CPD events continue to take place online.

Review of Cap 545

In her 2021 Policy Address, the Chief Executive proposed lowering the compulsory sale thresholds under the Land (Compulsory Sale for Redevelopment) Ordinance (Cap 545) to expedite the redevelopment of Hong Kong's aged buildings.

In response, the GPD is polling its surveyors to gauge their views on the proposal and on Cap 545 in general, so as to enhance the protection of minority owners' interests in compulsory sale cases.

I thank Sr Sat Wei Ling and Sr Wayne Lee for joining the GPD's interviews. Working group members are now updating the Chinese version of the Guidance Notes on Compulsory Sale (『強制售賣』概覽) with the objective of educating the general public.

All fellow members are welcome to share their

views on the CE's proposal and Ordinance. Please send your comments to the following email address by 15 April 2022: alnwickchan.hkis@gmail.com.

During these exercises, the GPD endeavours to enhance its protection of minority owner interests, encourage early settlement, and expedite Hong Kong's redevelopment process.

As a professional body, the GPD shall not shy away from promoting urban renewal, while also enhancing business opportunities for its members. Urban renewal not only reduces the risks associated with dilapidated buildings, it also serves Hong Kong's best interests.

Upcoming CPD Events

The CPD panel led by Sr Alvin Leung has planned three online CPDs for the next two months. Please visit the HKIS website for the latest details on each topic.

Date	Time	Event Name	Speaker
17 March	6:30-8:00 pm	Implications of the Court of Final Appeal's Judgement on Kwok Cheuk Kin v Director of Lands on Small House Policy	Ms Isabel Tam, Barrister, Denis Chang's Chambers
29 March	6:30-8:00 pm	Pillboxes on Hong Kong Island during the World War II Era	Prof Lawrence Lai, HKU
26 April	6:30-8:00 pm	Sharing of M+ Development from an Architect's Perspective	TBD



Land Surveying Division
Sr Paul Tsui LSD Council Chairman

Smart Cities and Land Surveyors

Turning Hong Kong into a smart city has been a hot topic in recent years. How is the work of land surveyors related to that for smart cities? The Internet of Things (IoT), big data analytics, and artificial intelligence (AI) are recognised as key technologies that power a smart city. Nevertheless, these three technologies are highly related to data. According to some studies, 80% of data have a location component. In the 2015 statistics of the European Commission's European Data Portal, the category of geographic information was shown to have the highest commercial value and could be used in 13 other data categories via maps to create visualisations. In fact, many smart city applications are location-based.

IoT network sensors can generate a huge amount of real-time location data at high speeds no matter if the sensors are static or dynamic in location. With such a large amount of spatiotemporal data generated, geospatial big data analytics can be utilised to discover insights into the big data using spatial statistical techniques. This also forms the basis of a broader discipline of AI, which highly depends on the amount and quality of training data available for making accurate predictions.

Many AI application scenarios are location-based in nature, so a new scientific discipline, geospatial artificial intelligence (GeoAI), has emerged. GeoAI combines innovations in spatial data science, artificial intelligence methods in machine and deep learning, data-mining techniques (e.g. spatial statistics), and high performance computing to extract information from spatial big data. Indeed, land surveyors have been using AI techniques to perform image classifications on satellite imagery for a few decades.

GeoAI, together with IoT and geospatial big data analytics, can power many different smart city applications. The keys to its success are the talents specialising in collecting, handling, and analysing spatial data. As I mentioned last month, land surveyors have added spatial data scientist to their areas of expertise and can make significant contributions to transforming Hong Kong into a smart city from a technological perspective.

Now TV 『理財有方』訪問 - 香港土地測量師進入大灣區市場的障礙與機遇

前任土地測量組主席林力山博士測量師早前接受 Now TV 『理財有方』節目訪問，就香港土地測量師在大灣區市場的障礙與機遇作出分析。

障礙方面 - 專業資格互認

專業資格互認是進入內地市場的重要環節。現時，香港土地測量師還未與內地達成該互認協議，主要原因是國內沒有一個『行業自律管理』的土地測量師專業學會。在內地，土地測量師稱為『測繪師』，國內的測繪師資格是透過測繪師考試制度直接由政府頒發。專業資格互認原是由中港兩地的相關『專業學會團體』作為『對口』經討論達成協議，而該互認在土地測量師及測繪師範疇方面，便出現『不對口』的情況。現時的折衷安排是歡迎港澳專業人士參加國內的測繪師考試，透過考試而獲取測繪師資格。

林博士認為，雖然現時情況如此，但是參考其他已達成專業資格互認協議的測量組別經驗，土地測量師的專業資格互認仍是指日可待的。例如：國內的中國房地產估價師與房地產經紀人學會原本也是在內地政府體系內，最後亦成為行業自律管理組織，可以進行『對口』專業資格互認。因此，土地測量師組正積極推動國內測繪師成為行業自律管理組織。

障礙方面 - 國家座標系統等敏感資料

國家座標系統乃國內高度敏感資料，例如：港珠澳大橋、深港蓮塘 / 香園圍口岸等跨境基建項目，在香港境外範圍有座標資料的工程圖都有嚴謹的『限閱』法規規定。因此，香港土地測量師可能因未獲批准索取地圖及座標資料，而不能在內地進行測繪服務。

機遇方面 - 房產測繪

內地房地產發展蓬勃，房產測繪服務需求殷切。房產測繪包括建立平面控制網及分層分戶平面圖，分層分戶平面圖及相關的圖、表、冊、簿、面積等數據都是在買賣時法規規定的重要資料。林博士認為，平面控制網及分層分戶平面圖與國家座標系統可以是分離的，因此，香港土地測量師應可以爭取在需求殷切的內地房產測繪服務，分一杯匙。

結語

林博士認為，雖然香港土地測量師就進入內地市場還有一點障礙，但是粵港澳大灣區及十四五規劃仍國家重點推進發展工作，十分需要香港專業人士的貢獻。香港土地測量師一直不斷積極裝備自己，例如：智慧城市、空間數據共享平台，就是為著將會迎來的龐大機遇。

CPD Highlights

“Multi-functional Smart Lampposts” Pilot Scheme

A joint professional seminar on the “Multi-functional Smart Lampposts” Pilot Scheme was held on 17 February. Colleagues from OGCIO, the Office of the Government Chief Information Officer (Ms Cari WU and Mr Dantes TANG), the Highways Department (Mr Nelson IP and Mr Ronald KWOK), and Lands Department (Mr Kenny CHAN) shared with HKIS members the Scheme’s design and implementation.

The Government’s 2017 Policy Address mentioned the launch of the Scheme at selected urban locations to support the building of a smart city with citywide coverage of data and networks. The Highways Department engineers introduced the Scheme’s background and elaborated on the functions of equipped sensors, provisions to accommodate those sensors, and their expected benefits. OGCIO’s systems managers then summarised the Scheme’s implementation progress and explained the various measures to protect privacy and available open datasets for further applications. Sr Kenny Chan highlighted the positioning devices in the smart lampposts and spatial data and positioning infrastructure behind the scenes.

Over 100 HKIS members attended this briefing session via Zoom. The Q&A session featured fruitful discussions and exchanges between the speakers and audience, which shed further light on the future innovative possibilities of smart lampposts.

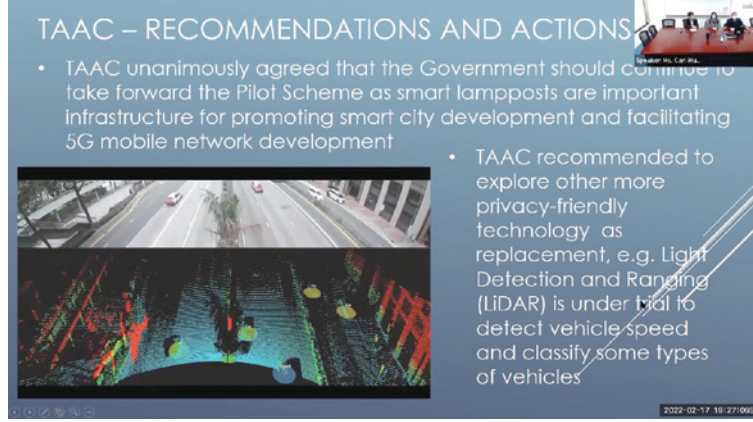
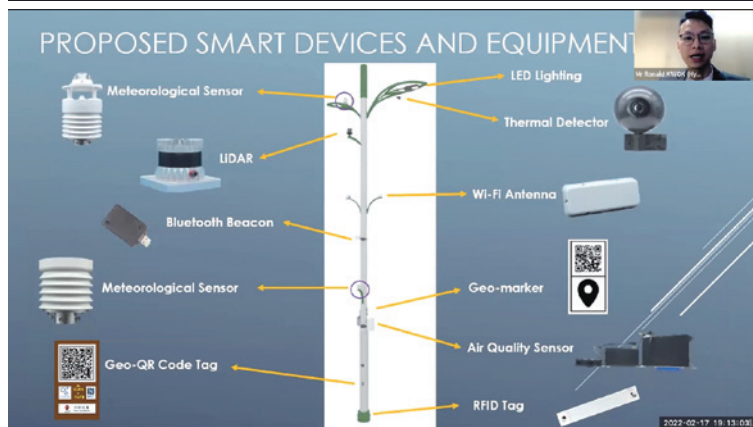


Courtesy of Now TV and YouTube:

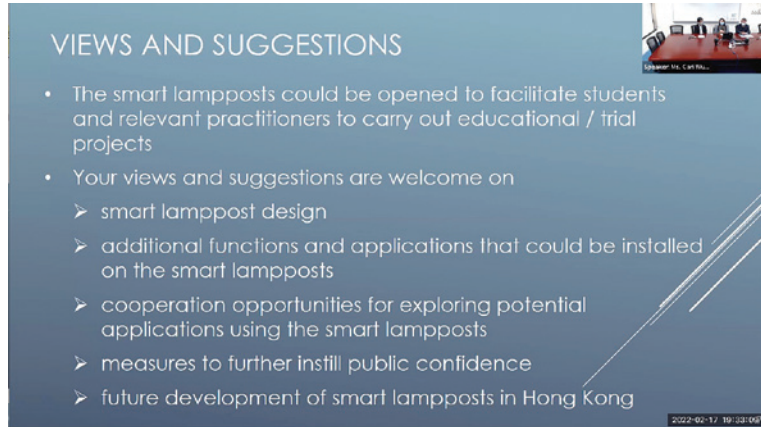
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CPD Highlights - "Multi-functional Smart Lampposts" Pilot Scheme



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 THE HONG KONG INSTITUTE OF SURVEYORS
 香港測量師學會



Planning & Development Division
Sr Terence Wai PDD Council Chairman

PDD Council Meeting

The PDD Council held its third meeting of the council year on 10 February. Due to the Covid-19 pandemic, the meeting was conducted via Zoom. The Council discussed the PDD Annual Plan 2022 and agreed to organise visits to secondary and tertiary education institutions to promote its work to students. The Council also discussed arranging events/gatherings for new members/probationers once the fifth wave of the epidemic is under control.

The following members were endorsed as co-opted members of the Council:

Sr Cammy Cheng	Sr Eureka Cheng
Sr Ben Chong	Sr Eric Ko
Sr Tony Leung	Sr Darran Tsang
Sr Victor Sung	

Sing Tao Daily Column

An article written by Sr Terence Wai entitled, 「疫情期間香港酒店改劃及發展」, was published in Sing Tao Daily's 高深可測 column on 17 January:

The article discusses the impact of the COVID-19 pandemic on the hotel industry in Hong Kong. It mentions that since the start of the epidemic, the number of hotel rooms has decreased by 59% compared to January 2020. The article also talks about the government's plan to allow hotels to be used as temporary housing for people returning from overseas, and the potential for hotels to be converted into residential or commercial use.

香港測量師學會(規劃及發展組)與廣東省國土空間規劃協會簽署“深化粵港合

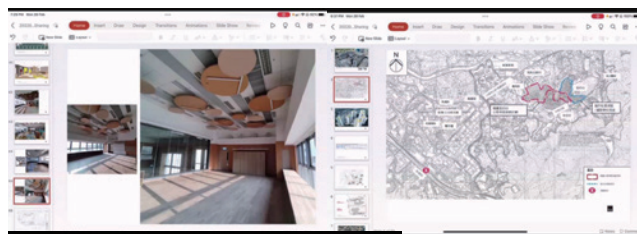
作框架協議”(續簽)

規劃及發展組將於三月四日與廣東省國土空間規劃協會簽署“深化粵港合作框架協議”，並於簽署儀式後舉行兩地規劃及發展分享會。

PDD CPD: Project-sharing on a New 30-Classroom Primary School at Queens Hill, Fanling, by TCA in Collaboration with ArchSD

The PDD was pleased to invite Mr Jacky HF Cheung, Director of TCA, Deputy Chair of the HKIA's Planning and Urban Design Committee, and alternate member representing the HKIA at the Harbourfront Commission, to share his project experiences in a recently completed 30-classroom primary school at Queens Hill, Fanling. This is a Government project overseen by TCA in collaboration with the Architectural Services Department (ArchSD).

The event was conducted via Zoom and well-attended. On behalf of the PDD, I express my sincere thanks to Jacky.



Mr Jacky HF Cheung

Upcoming CPD

Code	2022039
Event Name	Conservation-cum-Development Projects in the Wondered-land
CPD Code	Formal Events
Speaker	<p>Sr Candy CHAN Pak-wai MRICS, MHKIS, RPS(GP), HKICON Director of Property Conservation Co, Ltd, and Vice President (External Affairs) of HKICON</p> <p>Candy is a chartered general practice surveyor with dual expertise in the property development and heritage conservation industries. Practised in both the private and public sectors, she has worked for a major property developer, international real estate consultancy, and the Antiquities and Monuments Office. In 2014, she started her conservation consultancy to provide conservation advisory services. Since then, she has been involved in a number of conservation studies and conservation-cum-development projects.</p> <p>Candy was a part-time lecturer for the undergraduate and postgraduate programmes at the Continuous Professional Education Centre of the Chinese University of Hong Kong. As Vice President (External Affairs) of the Hong Kong Institute of Architectural Conservationists (HKICON), she encourages collaboration between HKICON and different professional institutions and promotes the recognition and understanding of architectural conservation in Hong Kong and beyond.</p>
Event Date	2022-03-24
Event Time	7:00-8:30 pm
Registration Closing Date	2022-03-20
CPD Hour(s)	1.5
Meeting Format	Zoom

Division	PDD
Organiser	PDD and the Hong Kong Institute of Architectural Conservationists
Fee	HK\$120 for probationers and student members; HK\$150 for full and associate members; HK\$200 for non-members
Priority	HKIS and HKICON members (first-come, first-served)
Language	Cantonese supplemented by English
Details	<p>Conservation and development were once seen as mutually conflicting forces. Private developers were often seen as the “bad guys” who demolished historic buildings for redevelopment. Times have changed, as more developers in Hong Kong have started to preserve part or all of the historic buildings they inherit and integrated them into their new developments.</p> <p>While there has been controversy over individual projects, built heritage conservation has gained recognition for being a sustainable and viable way to balance saving the past and building for the future.</p> <p>During this CPD, Candy will present examples of conservation-cum-development projects in Hong Kong and share her experiences with and understanding of the concept.</p>
Remarks	<p>The event will be conducted via Zoom. Upon the successful payment of the registration fee, the participant will receive a Zoom link to join the CPD. This link will be made available in the CPD/PQSL profile under the Member Area of the HKIS website.</p> <p>Please install the Zoom app beforehand at: https://www.zoom.us/download.</p> <ul style="list-style-type: none"> • For smartphones and tablets, please choose the Zoom Cloud Meetings app after downloading it from the App or Play Store. • For PCs and Macs, download and install Zoom Client for Meetings.
Payment	HK\$150



Property & Facility Management Division
Sr Charles Hung PFMD Council Chairman

HKIS Beyond Your Campus Event

**Reported by Sr Shelley Chan,
PFMD Honorary Secretary**

The HKIS Beyond Your Campus Competition 2021-2022 briefing occurred on 8 January. The competition aims to encourage secondary school students to explore their campuses and surrounding communities and allow them to express their creativity by designing ideal environments for the schools.

This year, the briefing was held online due to the latest social distancing policy. President Sr KK Chiu kick-started the event with a welcome speech. Then the seven divisions introduced the job duties of surveyors and conducted workshops for the students in attendance.

PFMD representative Sr Shelley Chan introduced the role of a PFM surveyor in campus management, the air-conditioning DIY workshop, and the PFMD mentors. The event concluded with an exciting game that demonstrated the students' understanding of a surveyor's role.

The PFMD looks forward to the next workshop in March.



(3rd from left): Sr Shelley Chan, PFMD Honorary Secretary (7th from left): Sr KK Chiu, HKIS President

CPD Activity Report on 10 December 2021 Redefining Your Operations with PropTech Solutions

Reported by Sr Alan Siu, PFMD Council Member

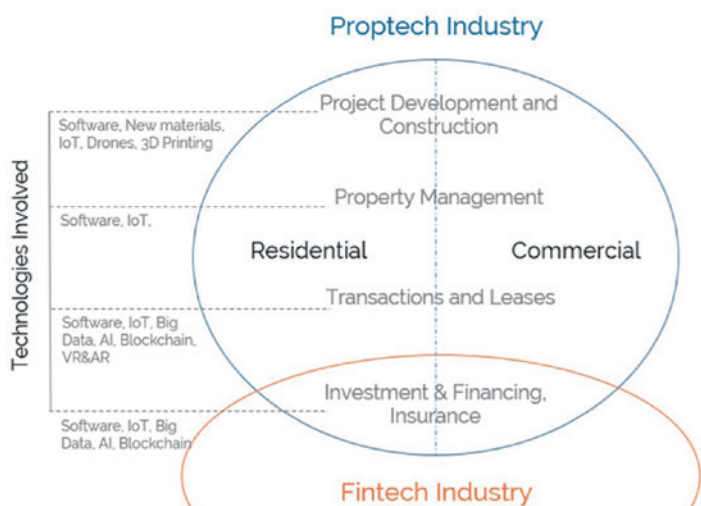
The PFMD organised the captioned CPD event on 10 December via Zoom. Mr Johnson Yim, CEO of e-Business Solutions Limited (EBSL) & Director of PropTech Solution Limited, introduced the captioned topic.

Johnson's speech began with an introduction to the PropTech landscape, which included a definition of PropTech and its market map. He defined PropTech as the application of technology to the real estate sector to improve real estate transactions, property management, and tenant experiences. PropTech's support application to the industry included, but was not limited to, broker transactions, leasing and lease management, property management, tenancy experiences, etc.



Sr Shelley Chan, PFMD Representative

Johnson then presented various technologies that PropTech adopted (see Figure 1) including augmented reality, artificial intelligence, IoT, blockchain, etc. He also augmented those technologies with real-life examples. Many companies have adopted IoT to support smart building management, which includes tracking the energy use of a building, monitoring a workplace's indoor air quality, calculating each office's desk occupancy rate, and profiling the waste habits of the building. Asset and equipment management is a common tool that the industry has adopted.



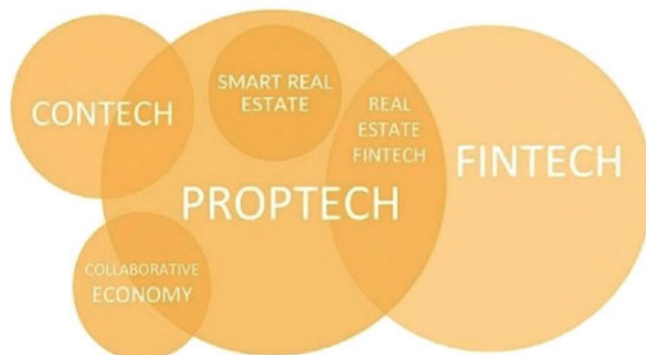
PropTech Technology Map

Finally, Johnson highlighted his thoughts on PropTech's future development (Figure 2). Under the current technology, he suggested that PropTech would overlap with fintech and construction technology, while smart real estate would only be part of PropTech development. He also gave an example of potential real estate fintech, in which real estate transactions could be completed through blockchain and crypto to involve all relevant parties in the overall process via smart contract applications.

During the Q&A session, Johnson responded to several queries from delegates about the cost-benefit of adopting PropTech for operation and information security. Before closing, he

elaborated on the concept of blockchain's support for surveying professionals – particularly in the property and facilities management industries.

PROPTech MARKET



Future of PropTech



(L-R): Sr Alan Siu, Mr Johnson Yim, and Sr Dick Li



Property Management Services Authority Continuing Professional Development Scheme 物業管理業監管局 「持續專業發展計劃」

A briefing was held on 20 January to discuss the Continuing Professional Development Scheme (hereafter the Scheme), which will be implemented on a voluntary participation basis until 31 July 2023 as follows:

Recognised Activities/Courses	(Tier 1) Licencees	(Tier 2) Licencees
Recommended Number of CPD Hours/Year	12 hours	6 hours
“Core” Content	Minimum 8 hours	Minimum 4 hours
“Unofficial” Learning Model	Maximum 4 hours	Maximum 2 hours

The courses should cover the following aspects:

1. Equip licencees with the latest professional, regulatory, and ethical knowledge
2. Enhance licencees’ professional abilities to provide quality services
3. Help the industry establish an effective quality assurance system

The Property Management Services Authority (PMSA) will approve in advance professional development activities/courses that are organised by PMSA-recognised professional bodies, including the HKIS, and meet the Scheme’s criteria. HKIS will plan and submit their proposed activities/courses for PMSA’s approval.

The Scheme will use a standard calendar year (1 January-31 December) as its counting unit. Certificates of recognition will be issued to licencees who meet the requirements of the PMSA’s recommended CPD hours for continuing education activities during each CPD year. An electronic recording system will be in place for practitioners to plan and search for their training records on the PMSA website or on a mobile app now being developed.

The PMSA recently released a short film entitled, **Property Management – Good Job!** with a view to introducing the property management profession. Members are encouraged to view it at the PMSA website at their earliest convenience:

<https://tinyurl.com/y95h5mry>



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Quantity Surveying Division
Sr Sunny Choi QSD Council Chairman

與深圳市造價工程師協會 線上交流會議 (2022年 2月14日)

由於疫情關係，實體拜訪仍存有不確定性，而應深圳市造價工程師協會（下稱「協會」）創始會長陳廣言先生及會長吳慧博先生的邀請，協會與工料測量組於2月14日上午舉行了線上交流會議。雙方參與是次會議的成員如下：

香港測量師學會工料測量組		深圳市造價工程師協會	
蔡盛霖測量師	工料測量組主席	陳廣言先生	深圳市造價工程師協會創始會長
魏志衡測量師	工料測量組副主席兼內地及澳門小組主席	吳慧博先生	深圳市造價工程師協會會長
黃國良測量師	學會高級副會長兼工料測量組前主席	吳慧燕女士	深圳市造價工程師協會黨委書記
甘家輝測量師	學會義務司庫兼工料測量組前主席	程曉丹女士	深圳市造價工程師協會黨委副書記、紀委書記
霍靜妍測量師	工料測量組前主席	陳曼文先生	深圳市造價工程師協會副會長
何國鈞測量師	學會前會長兼工料測量組前主席	賽緒志先生	深圳市造價工程師協會副會長
嚴少忠測量師	工料測量組前主席兼內地及澳門小組副主席	黃維芬女士	深圳市造價工程師協會副會長
陳耀光測量師	工料測量組內地及澳門小組成員		

會議開始，先由我簡介了工料測量組2022年的工作計畫，繼而由陳廣言創始會長就國務院的（國發〔2021〕7號）文件發佈「取消造價諮詢資質

確定」後對造價諮詢營商環境所帶來的變化及影響進行分析。陳會長對香港工料測量師進入深圳執業存在的問題及障礙提供寶貴的建議。及後由吳慧博會長介紹協會2022年的工作計畫。

隨後，雙方就香港工料測量顧問服務的投標操作及收費計算，專業培訓及技術交流等議題展開了詳細討論，並同意往後加強兩地協/學會的交流互訪活動。協會邀請工料測量組在疫情過後，往深圳市作交流拜訪，進一步深化彼此的合作。



Career Talk at PolyU SPEED

A career talk was held online for students of Bachelor's degree in Surveying of the Hong Kong Polytechnic University (PolyU) SPEED on 17 February. Over 100 students, from year 1 to the final year study, attended the event.

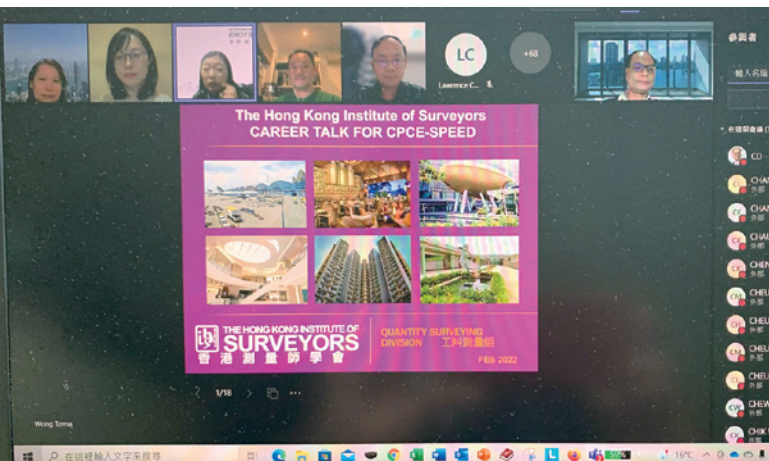
Sr Tzena Wong (QSD Chairperson of the Promotion Sub-Committee and Council member) and Sr Tiffany Chan (QSD Vice Chairperson of the Promotion Sub-Committee and Council member) introduced the roles of and career prospects for QS professionals, along with the

DIVISIONAL NEWS & ACTIVITIES

組別簡訊

routes to qualification. Then I, Sr Rex Ying (QSD Vice-Chairman), Sr Stanley Chow, and Sr Lawrence Chong shared our journeys to qualification and personal experiences. The speakers' previous or current employers included the government, QS consultant firms, main contractors, and sub-contractors.

The students raised many questions during the Q&A session – particularly on how to satisfy logbook requirements – and how to prepare for the APC examination. Tzena reminded them to remember the 5Cs – Contract, Cost, Construction, Communication, and Confidence – which are the core skillsets one needs to be able to meet future challenges.



HKIS Souvenir

HKIS 35th Anniversary Runderful Pro Tee (Unisex)
HK\$80 (Member price)

HKIS 35th Anniversary Cap
HK\$35 (Member price)

Available for sale at HKIS reception / HKIS Website

For enquiries and ordering, please contact our reception desk at 2526 3679 or visit https://www.hkis.org.hk/en/hkis_shop.html

HKIS Souvenir

HKIS Car Badge

A premium quality HKIS Car Badge is available now for you to decorate your car. Featuring HKIS' signature purple colour and shiny chrome, this nickel-plated car badge comes with two screws for easy installation.

Each retailed at HK\$180.

For enquiries and ordering, please contact our reception desk at 2526 3679 or visit https://hkis.org.hk/en/hkis_shop.html



Young Surveyors Group
Sr Sunny Wong YSG Committee Chairman

Dragon Boat

April is the start of the HKIS dragon boat team! The team joins several dragon boat competitions every year, especially during the Tuen Ng Festival, which is now an annual ritual.

The HKIS Dragon Boat Team is recruiting paddlers. It will train every Sunday until June. Regardless of your skill level, it's never too late to join its practices. The \$350 enrolment fee includes all training equipment, a uniform, and transportation and catering expenses during each competition.

Dragon boating developed from ancient Chinese exorcism activities. Nowadays, this sport has been popularised by both Eastern and Western sports enthusiasts. Each boat contains 19 crew members including the cadence drummer. Members are welcome to join the HKIS team to enjoy the fun and camaraderie of dragon boating! For those who are interested, please contact Sr Sunny Wong/Ms Iris Mak below for more details. All are welcome!

**HKIS
DRAGON
BOAT
TEAM**

CALL FOR PADDLERS

TRAINING	Every Sunday from April
LOCATION	Stanley Main Beach
RECRUITING	Male & Female Paddlers
FEE	HKD 350 (For Members)

It's summertime!

JOIN US!

For more information, kindly contact Sr. Sunny Wong / Ms Iris Mak at 64452440 / 97022092 or email to sunny_wky@outlook.com



2022 CPD Events

Apart from social events, a list of CPDs for 2022 has been arranged as follows:

Date	Event Name
26 February	Structural Series (2): Engineering Practices in the Construction Industry

DIVISIONAL NEWS & ACTIVITIES

組別簡訊

Date	Event Name
19 March	Experience-Sharing (1): From the Civil & Structural Engineer's Surveying Practices
26 March	Experience-Sharing (2): From the Civil & Structural Engineer's Surveying Practices
30 April	Short Course (1): Experience-Sharing on the Application of Building (Planning) Regulations
7 May	Short Course (2): Experience-Sharing on the Application of Building (Planning) Regulations
4 June	Short Course (3): Experience-Sharing on the Application of Building (Planning) Regulations
11 June	Short Course (4): Experience-Sharing on the Application of Building (Planning) Regulations
2 July	Short Course (5): Experience-Sharing on the Application of Building (Planning) Regulations
9 July	Short Course (6): Experience-Sharing on the Application of Building (Planning) Regulations
To be confirmed	Experience-Sharing on the Application of Building Information Modelling (BIM)
To be confirmed	Site Visit to Trunk Road T2 and the Cha Kwo Ling Tunnel
To be confirmed	Experience-Sharing on Development Controls and Policy
To be confirmed	Hong Kong Harbourfront Development Policy and Initiatives
To be confirmed	New Development Area in the Northern District – Challenges and Opportunities

Date	Event Name
To be confirmed	Site Visit to the Tung Chung Community Liaison Centre
To be confirmed	Site Visit to the Central Kowloon Route
To be confirmed	Effect of the New Minimum Size Flat Rules on Leases
To be confirmed	Sharing on Career Opportunities for Surveyors in the Greater Bay Area
To be confirmed	Trend of Flexible Work Spaces in the Post-Covid Era

More site visits, seminars, workshops, and CPDs will follow, depending on the latest Covid-19 developments. Please let us know if you have any topic that you want to see covered.

HKIS Souvenir

HKIS Polo Shirt

Stay cool and comfy with the HKIS polo shirt! Made of Coolmax material, the newly designed HKIS polo shirt is perfect for the summer days. The polo shirt is available in male and female sizes.

Each retailed at HK\$80.



Male



Female

For enquiries and ordering, please contact our reception desk at 2526 3679 or visit https://www.hkis.org.hk/en/hkis_shop.html.

Reported by Sr Gigi Mok,
YSG CPD Convener

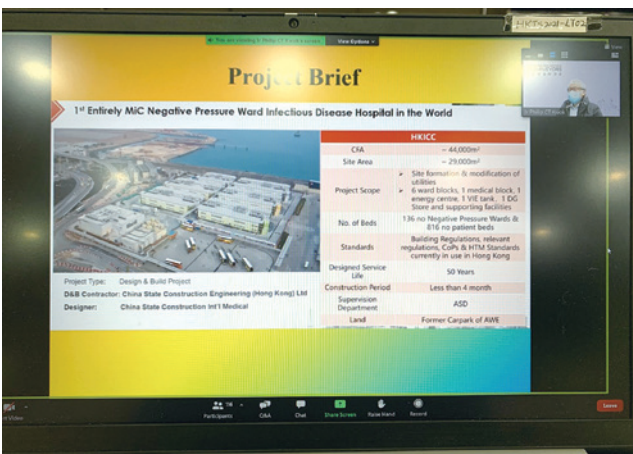
Structural Series (1) & (2): Engineering Practices in the Construction Industry (12 & 26 February 2022)



Souvenir Presentation to Ir Philip Kwok, Senior Project Manager, Fugro (Hong Kong), Limited



Ir Kwok shares his knowledge of modular integrated construction in the construction industry.



Ir Kwok explains one of Hong Kong's MiC projects under Design & Build by a contractor.



Ir Kwok shares one MiC project, InnoCell, and one renovation project, Antwerp Port House (in Belgium), during his second lecture.



Ir Kwok explains how InnoCell could achieve a smart living & co-creation community.







Ir Kwok explains the renovation technique used for the Antwerp Port House.




YSG was honoured to invite Ir Kwok to deliver two fruitful half-day seminars to its younger members. During the talk, members gained a better understanding of engineering practices in Hong Kong after being introduced to a negative pressure ward infectious disease hospital project, the Hong Kong Infection Control Centre at North Lantau Hospital (Seminar 1), and to how InnoCell innovated a co-living and co-creation community (Seminar 2).

Ir Kwok also shared the techniques adopted by other countries for their renovation works. Many members learnt a lot from his experiences and keenly exchanged views with him during the Q&A session.

HKIS CPD/PQSL/SOCIAL EVENTS SUMMARY 2 MAR - 23 AUG 2022

DATE	CODE	EVENT	SPEAKER(S)	ORGANISER	CPD HOUR(S)	Recognised Divisional PQSL Event	Divisional PQSL Hour(s)	Reservation Fee
2 Mar 2022	2022012	Scheduling Revit for QTO	K C Tang	QSD	1.5	✓	1.5	HK\$150 - members; HK\$210 - non-members
4 Mar 2022	2022041	廣東省國土空間規劃協會與香港測量師學會 (規劃及發展組) 深化粵港合作框架協議簽署儀式及兩地規劃及發展分享 New	邱衍慶、姚逸明	PDD	1.0	✓	1.0	免費
9 Mar 2022	2022011E	QSD PQSL Estimating Series 2022 (2) – Pre-Contract Cost Planning and Control Part 2	K C Tang	QSD	-	✓	1.5	HK\$120 - members; HK\$200 - non-members
12 Mar 2022	2022026	Sharing Surveying Work experience in the U.K.	Charles Hung, Celia Wong	PFMD	1.5	✓	1.5	HK\$150 - members; HK\$210 - non-members
14 Mar 2022	2022030	Subtle matters under Land (Compulsory Sale For Redevelopment) Ordinance (Cap 545) New	Flames Y S Wong	PFMD	1.5	✓	1.5	HK\$150 - members; HK\$210 - non-members
16 Mar 2022	2022033	Practical Experience Sharing on Excavation and Lateral Support (ELS) and Piling Works New	Wilson S F Wong	QSD, HKICM	1.5	✓	1.5	HK\$150 - HKIS and HKICM members; HK\$210 - non-members
17 Mar 2022	2022036	Implications of the Court of Final Appeals Judgement on Kwok Cheuk Kin v Director of Lands on Small House Policy New	Isabel Tam	GPD	1.5	✓	1.5	HK\$150 - members; HK\$250 - non-members
18 Mar 2022	2022011F	QSD PQSL Procurement Series 2022 (1) – Reports on Tender New	Cindia Hui	QSD	-	✓	1.5	HK\$120 - members; HK\$200 - non-members

DATE	CODE	EVENT	SPEAKER(S)	ORGANISER	CPD HOUR(S)	Recognised Divisional PQSL Event	Divisional PQSL Hour(s)	Reservation Fee
19 Mar 2022	2022005	Experience Sharing (1) – From the Civil & Structural Engineer's practices for surveying	Allan W H Wong	YSG	3.0	To be determined by respective Division		HK\$340 – members; HK\$400 – non-members; FOC – full time degree student members
21 Mar 2022	2022037	Savaged by War, Salvaged in Peace: An Overview of Military Architectural Heritage of the World and Hong Kong 	H Y Lee	BSD	2.0	✓	2.0	HK\$200 – members; HK\$250 – non-members
23 Mar 2022	2022011G	QSD PQSL Procurement Series 2022 (2) – Basic Guidelines in Procurement 	H Y Wan	QSD	-	✓	1.5	HK\$120 – members; HK\$200 – non-members
24 Mar 2022	2022039	Conservation-cum-Development Projects in the Wondered-land 	Candy P W Chan	PDD, HKICON	1.5	✓	1.5	HK\$120 – probationer and student member; HK\$150 – full-member and associate member; HK\$200 – non-members
26 Mar 2022	2022006	Experience Sharing (2) – From the Civil & Structural Engineer's practices for surveying	Allan W H Wong	YSG	3.0	To be determined by respective Division		HK\$340 – members; HK\$400 – non-members; FOC – full time degree student members
2 Apr 2022	2022042	QSD PQSL - QSD APC Part I Workshop 	Experienced Assessors of QSD APC	QSD	-	✓	3.0	Free of charge - QSD probationers; HK\$200 – members; HK\$300 – non-members

DATE	CODE	EVENT	SPEAKER(S)	ORGANISER	CPD HOUR(S)	Recognised Divisional PQSL Event	Divisional PQSL Hour(s)	Reservation Fee
8 Apr 2022	2022011H	QSD PQSL Estimating Series 2022 (3) – Pre-Contract Cost Planning and Control Part 3 	K C Tang	QSD	-	✓	1.5	HK\$120 - members; HK\$200 - non-members
20 Apr 2022	2022034	Contract and Claim Management Tactics under SOP 	Eric Ting	QSD, HKICM	1.5	✓	1.5	HK\$150 - HKIS and HKICM members; HK\$210 - non-members
23 Apr 2022	2022022	Visit to The Pokfulam Farm "薄農林牧場" FULL (Rescheduled from 19 February 2022)	Steven C K Chui, Nigel W H Ko	BSD	3.5	✓	3.5	HK\$300 - members
27 Apr 2022	2022027	Advanced coating system for renovation in cost effective approach	Michelle Tsang	BSD	1.5	✓	1.5	HK\$150 - members; HK\$180 - non-members
30 Apr 2022	2022016	Short Course (1) - Experience Sharing on the Application of Building (Planning) Regulations	Terry K Y Ng	YSG	3.0	To be determined by respective Division		HK\$320 - members; HK\$400 - non-members; FOC - full time degree student members
3 May 2022	2022035	Building as Material Bank – a QS Perspective 	Eugene Seah	QSD	1.5	✓	1.5	HK\$150 - members; HK\$210 - non-members
7 May 2022	2022017	Short Course (2) - Experience Sharing on the Application of Building (Planning) Regulations	Terry K Y Ng	YSG	3.0	To be determined by respective Division		HK\$320 - members; HK\$400 - non-members; FOC - full time degree student members
18 May 2022	2022029	Variations to Contract	Calvin Law	QSD	1.5	✓	1.5	HK\$150 - members; HK\$210 - non-members

DATE	CODE	EVENT	SPEAKER(S)	ORGANISER	CPD HOUR(S)	Recognised Divisional PQSL Event	Divisional PQSL Hour(s)	Reservation Fee
4 Jun 2022	2022018	Short Course (3) - Experience Sharing on the Application of Building (Planning) Regulations	Terry K Y Ng	YSG	3.0	To be determined by respective Division		FOC - members (with conditions, please refer to website); HK\$400 - non-members; FOC - full time degree student members
8 Jun 2022	2022038	Experience Sharing Seminar in the General Application of Fire Safety Ordinances 	Stephen S M Tse	BSD	1.5	✓	1.5	HK\$150 - members; HK\$180 - non-members
11 Jun 2022	2022019	Short Course (4) - Experience Sharing on the Application of Building (Planning) Regulations	Terry K Y Ng	YSG	3.0	To be determined by respective Division		HK\$320 - members; HK\$400 - non-members; FOC - full time degree student members
15 Jun 2022	2022025	Overview and Experience Sharing on Quantity Surveying in Civil Engineering Works	Pak N Wan	QSD	1.5	✓	1.5	HK\$150 - members; HK\$210 - non-members
20 Jun 2022	2022028	Sustainable Development on roofing systems	Kent Lam	BSD	1.5	✓	1.5	HK\$150 - members; HK\$180 - non-members
2 Jul 2022	2022020	Short Course (5) - Experience Sharing on the Application of Building (Planning) Regulations	Terry K Y Ng	YSG	3.0	To be determined by respective Division		HK\$320 - members; HK\$400 - non-members; FOC - full time degree student members
6 Jul 2022	2022040	Playground Design with Case Studies 	Judie Au, Vicky Luk	BSD	1.5	✓	1.5	HK\$150 - members; HK\$180 - non-members

DATE	CODE	EVENT	SPEAKER(S)	ORGANISER	CPD HOUR(S)	Recognised Divisional PQSL Event	Divisional PQSL Hour(s)	Reservation Fee
9 Jul 2022	2022021	Short Course (6) - Experience Sharing on the Application of Building (Planning) Regulations	Terry K Y Ng	YSG	3.0	To be determined by respective Division	FOC - members (with conditions, please refer to website); HK\$400 - non-members; FOC - full time degree student members	
23 Aug 2022	2022031	Control of Existing Buildings and Appeal Mechanism against the Building Authority's Orders New	Anderson C B Chan	BSD	1.5	✓	HK\$150 - members; HK\$180 - non-members	

(1) "Recognised Divisional PQSL Event" and "Divisional PQSL Hours": Applicable to the APC candidates (i.e. Probationers, Student Members & Associate Members) of the respective Divisions.

(2) "CPD Hours": Applicable to all Corporate Members and Associate Members across the 6 Divisions.

(3) "Recognised Divisional PQSL Event" is a PQSL Event that is recognised by the respective Division. Whether the event could be accepted as the PQSL event for other Division's APC scheme or not shall be determined by the APC candidate's respective Division.

(4) A CPD event may be recognised as a PQSL event when it is so indicated under the "Recognised Divisional PQSL Event" column. APC candidates may register for the event and obtain the PQSL hours for the APC scheme of the respective Division.

For details of the CPD events, please refer to the HKIS Website at https://hkis.org.hk/en/professional_cpd.html



For details of the CPD events, please refer to the HKIS Website at https://www.hkis.org.hk/en/professional_cpd.html or use the QR code provided.

GASOLINE

PETROCHINA CARD

From 1 January 2022, HKIS members can enjoy the private car discounts of **HK\$4.30 per litre for gasoline** and **HK\$9.20 per litre for diesel** for successful applicants. Terms and conditions apply. For details, please visit www.cheerwayco.com/pro.

ESSO FLEET CARD

From 1 February 2022, HKIS members can enjoy the privileged private car discounts of **HK\$4.20 per litre for petrol** and **HK\$8.80 per litre for diesel** purchases on credit for successful applicants and existing customers of **Ace Way Company**. Terms and conditions apply. For enquiries, please call Ace Way at **8100 3998**.

SHELL CARD

From 1 September 2021, the discount is **HK\$3 per litre for gasoline** for all successful application of the Shell Card. For enquiries, please call Mr Alex Au of Kingsway Concept Ltd. at **2541 1828**.

CALTEX STARCARD

From 4 November 2021, HKIS members and also their family members, who have never applied for Star Card OR Star Card holders who had no transaction record in the past four months, can enjoy an attractive discount of **HK\$4.2 per litre for gasoline** and **HK\$9 per litre for diesel** purchase every day. Terms and conditions apply. For enquiries, please call **Grace Chow** of Ming Xing Investment at **3746 1822 / 9279 5187**.

AFFINITY CARD

HKIS American Express® Credit Cards

Introducing the American Express Credit Cards exclusive to The Hong Kong Institute of Surveyors members: Platinum Credit Card/ Gold Credit Card. For exclusive offers to HKIS members, please refer to the HKIS website. Enquiry: **2277 1370**

Shanghai Commercial Bank HKIS Credit Cards

For exclusive offers of the Shanghai Commercial Bank HKIS VISA Platinum / MasterCard Titanium Credit Card, please refer to the HKIS website. Enquiry: **2818 8236**

OTHERS

Up To 15% DRY CLEAN & LAUNDRY

From now until 31 December 2022, HKIS members can enjoy **15% off on garment laundry and dry cleaning service**, and **5% off on household items & 10% off on pick up and delivery service from Vogue Laundry**. Please refer to the HKIS website for details.

10% CHORAL CONCERT TICKET

The Hong Kong Bach Choir presents a wide repertoire, from the Renaissance to World Premieres, while concentrating on music of the Baroque, Classical and Romantic periods. As a caring organisation, the HKIS is working with HK Bach Choir to promote performing arts in Hong Kong. Members of the HKIS can enjoy a **10% discount** on HK Bach Choir programmes by showing your membership card at URBTX outlets. For more information, please visit <http://www.bachchoir.org.hk>.

22% 5G HEARING AID

From now until 31 December 2022, HKIS members and their family members can enjoy free pure tone hearing test and **22% discount** on all models of 5G hearing aid purchase at SoundDelight Hearing Centre. Members can also enjoy additional one year warranty for selected models.

For enquiry or appointment, please call **3905 0388** or visit www.sounddelight.net.

Up To 10% DINING

The Royal Plaza Hotel is providing a special offer for dining at their restaurants (including **Di King Heen** and **La Scala**) to HKIS members. The offer will start on 2 January 2022 and last until 31 December 2022. Reservations are required and your membership card or HKIS American Express or HKIS & Shanghai Commercial Bank Limited co-brand Credit Card must be presented when you arrive at the restaurant. For promotion details, please visit HKIS website.

Up To 25% INSURANCE

HKIS members can enjoy special offers from **Zurich Insurance** including travel insurance (**single trip plan, 25% off**), medical plan (**up to 15% off**), home protection plan (**15% off**), etc.

Simply provide your HKIS membership number to enjoy these offers upon successful enrollment. For enquiries or product information, please call **2903 9393** or visit zurichcare.com.hk/surveyor

40% / 38% HEALTH CHECK PLAN

Health check-up packages are offered to all holders of HKIS membership cards by **Union Hospital** at a privilege offer of **HK\$3,500 for male** and **HK\$4,420 for female**. Plan is inclusive of physical examination and medical history; medical report with comment and consultations with two doctors; complete blood count; diabetic screening; lipid profile; hepatitis profile B; liver function test; renal function test; gout screening; urinalysis; stool & occult blood; resting ECG. Plan for male also includes PSA, chest x-ray, and kidneys, ureter & bladder x-ray, while plan for women includes thyroid screening, pelvic examination including pap smear, and mammogram/ breast ultrasound. Privilege lasts until 31 December 2023.

Advance booking is required for the above offers. For booking and enquiry, please call **2608 3170** (Union Hospital) / **2986 1111** (Tsim Sha Tsui Health Centre).

Free subscription Magazine

Building Journal, published monthly since 1973, is offering a **12-month FREE e-version subscription** through its online portal, www.building.hk, especially to HKIS members for online viewing. Together, the printed and e-version copies of Building Journal enjoy a combined monthly readership exceeding 500,000 around the world. Please refer to the Free Subscription Form on the HKIS website for detailed information.

Free subscription Magazine

Construction+ is a new bimonthly magazine that seeks to present extensive, in-depth B2B insights and updates from the industry, for the industry. It highlights China, Hong Kong & Macau's architectural, construction and design developments, and their contributions to the local construction landscapes. HKIS members can enjoy **complimentary copies** of Construction+ Magazine. Please visit HKIS website for more details.

50% HEALTH CHECK PLAN

From now until 31 December 2022, **health.ESDlife** offers 1) extra **5% off** on over 600+ health check plans on eshop (Discount code: HKIS2022). For Mobile Medical Platinum Health Check Plan (2 persons), HKIS members can enjoy up to **50% off** (average \$2,992.5/per person; HKIS discounted price: \$5,985). The plan consists of 103 checkup items including cancer marker, cardiac, liver, kidney and renal condition, thyroid, lung with \$2,000 FREE Parki/Shop/Apple/Fortress cash voucher or add \$300 for Dyson vacuum cleaner. More gifts like Dyson supersonic hairdryer, OTO massager and Nintendo Switch are available on selected plans. For purchase and details, please visit health.esdlife.com/hkis. For enquiry, please call **3151 2244**.

10% FOOTBALL SHIRT

Kitroom Sports is providing an exclusive offer to members buying football shirts. Simply show your membership card to enjoy a **10% discount** in Hong Kong and Macau branches. For details of the shop, please go to <http://www.kitroomsports.com/>.

10% DINING

FRITES restaurants is offering a **10% discount** to HKIS members (a la carte and express lunch menus), loyalty point programme and exclusive promotions throughout the year etc. For more details, please visit HKIS website.

Up to HK\$1,000 cash reward DBS Bank

HKIS members can enjoy an **exclusive account opening offer** from **DBS Bank**. Terms and conditions apply. Please refer to the HKIS website for details.

Special Offer (平安鐘) Care-on-Call Service

From now until 31 March 2022, Senior Citizen Home Safety Association is offering exclusive offers of **Care-on-Call Service (一線通平安鐘)** to HKIS members and your family members. Please refer to the HKIS website for details. For enquiries, please contact Mr Law at **5110 9568 / 2952 7391**.

15% WINE SHOPPING

Wine etc is providing a **15% discount** offer to HKIS members for buying wine at its retail shops (Pedder Building, Entertainment Building, and Happy Valley). The offer will be valid from now until 31 December 2022. HKIS members can also enjoy a special **buy-one-get-one-free** offer on **DELAMOTTE** champagne on the months of their birthdays.

Please check Wine etc's website for more details: <http://www.etcwineshops.com/>.

15% WEIGHT REDUCTION PLAN

MSL Nutritional Diet Centre aims to help the general public prevent diet-related chronic diseases and improve longevity through healthy eating and lifestyles. From now until 31 December 2022, HKIS members can enjoy its exclusive offers, including a **free "Wealth & Health Assessment"** (original price: \$188), **15% off** to join its "Weight Loss Plan" and a **free session of "Tummy Exercise Class"**.

An advance booking is required. For more information, please call **2526 0888** or visit www.mslhk.com.

10% BOOK AND STATIONERY

Enjoy **10% discount** on regular priced books and stationery (sales items excepted) at **Cosmos Books Ltd** upon presentation of original HKIS membership cards or HKIS affinity cards at all outlets of Cosmos Book Ltd. Privilege lasts until 31 December 2022.

15% PROFESSIONAL COURSE

HKIS members can enjoy a **15% discount** on fees of professional courses (except some programmes) of **OCHK's Li Ka Shing Institute of Professional and Continuing Education** under the Non-Profit Making Organisations Study Support Scheme (NMOSSS). Please refer to the HKIS website for details.

Special Offer INSURANCE

From now until 31 December 2022, HKIS members and their families can enjoy the **special offers** from **Prudential General Insurance HK, Ltd** including personal accident, overseas study, home & home-landlord, home decoration and relocation care insurance, etc. For further promotional details, please visit HKIS website.

Up To 25% DINING

Renaissance Harbour View Hotel is providing a special offer for dining at their restaurants, bar (including Cafe Renaissance, Mirage and Dynasty Chinese Restaurant) to HKIS members. Reservations are required and your membership card or HKIS American Express or HKIS & Shanghai Commercial Bank Limited co-brand Credit Card must be presented when you arrive at the restaurant. For promotion details, please visit HKIS website.

29% BOAT LICENSE COURSE

From now until 31 December 2022, **A & M Boating Limited** is offering a special discount and group discount for Boat License Course to all HKIS members. Please refer to the HKIS website for details. For further course details, please visit www.anmboating.com, or call 2891 3220 or email to info@anmboating.com.

10% DRIVING COURSE

From now until 31 December 2022, HKIS members can enjoy **10% discount** on specified driving training courses from **Lee Kin Driving School Ltd**. Simply provide your HKIS membership number to enjoy these offers upon successful enrollment. For enquiries or course detail information, please call **9022 6699** or visit leekin.com.hk.

Note: The HKIS will not be privy to any contracts between the HKIS members and the agency concerned. We will not be responsible for the administration of or the consequences arising from these contracts, including any personal data that HKIS members may agree to provide to the agency. No liability of any kind will be borne by the HKIS. All business transactions made under the membership benefits of HKIS are strictly between the merchant and HKIS members. The HKIS will not be involved in any complaints made by any party in any business transaction. All enquiries should be made to merchants directly.

For more details about members' privileges, please refer to the HKIS website at https://www.hkis.org.hk/en/members_corner_welfare.html.

Looking for advertising opportunities? Try *Surveyors Times*!

What is Surveyors Times 測量師時代?

Surveyors Times is the official monthly newsletter of the Hong Kong Institute of Surveyors (HKIS) covering topical issues of interest to the surveying industry and up-to-date news about HKIS activities, reaching surveyors in a wide range of fields, including consultants, contractors, public utilities, civil servants and academics.

Who can see my advertisement?

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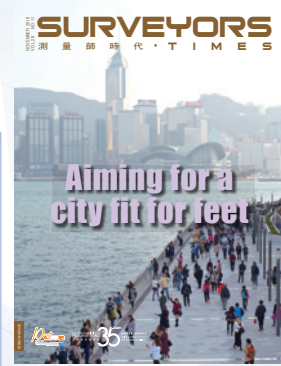
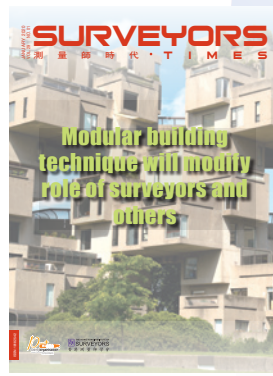
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