HONG KONG ICT AWARDS 2022 香港資訊及通訊科技獎

Smart Mobility Award
智慧出行獎

Leading Organiser
籌辦機構

GS1 Hong Kong

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Gold Award 金獎

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Smart Mobility Award
智慧出行獎

Background
背景

The Hong Kong ICT Awards aims at recognising and promoting outstanding information and communications technology (ICT) inventions and applications, thereby encouraging innovation and excellence among Hong Kong's ICT talent and enterprises in their constant pursuit of creative and better solutions to meet business and social needs.

The Hong Kong ICT Awards was established in 2006 with the collaborative efforts of the industry, academia and the Government. Steered by the Office of the Government Chief Information Officer, and organised by Hong Kong ICT industry associations and professional bodies, the Awards aims at building a locally espoused and internationally acclaimed brand of ICT awards.

There are eight categories under the Hong Kong ICT Awards 2022. There will be one Grand Award in each category, and an "Award of the Year" will be selected from the eight Grand Awards by the Grand Judging Panel.

香港資訊及通訊科技獎旨在表揚及推廣優秀的資訊及通訊科技發明和應用，以鼓勵香港業界精英和企業不斷追求創新和卓越，謀求更佳和更具創意的方案，滿足企業的營運需要，造福社會。

通過業界、學術界和政府的共同努力，香港資訊及通訊科技獎於二零零六年成立。香港資訊及通訊科技獎由政府資訊科技總監辦公室策動，並由香港業界組織及專業團體主辦，目的是為香港建立一個廣受香港社會愛戴、並獲國際認同的資訊及通訊科技專業獎項。

2022香港資訊及通訊科技獎設有八個類別的獎項。每個類別均設有一個大獎，而最終評審委員會會再從八個大獎中甄選出「全年大獎」。

Objectives
目的

1. Building Hong Kong as a Smart City with innovative ICT applications

Mobility and transport are essential if a city is to function properly. Smart city is built on a legion of interconnected devices which cannot be achieved without Smart Mobility. A smart city should be connected and citizen-centric to enhance accessibility and offer trouble-free travelling and delivery across the city for both visitors and citizens, bringing more convenience, a better quality of live, a more sustainable power usage, and a higher level of safety and city competitiveness.

The award aims to encourage the development and innovation of applications, leveraging the integration of Internet of Things (IoT), artificial intelligence, big data and analytics, robotics, as well as mobile applications, which will enhance the flow of people, goods, and tourists; improve the experiences of citizens and visitors; and enable smart mobility for a smarter Hong Kong.

1. 鼓勵開發嶄新智能應用，同建香港智慧城市藍圖

完善的交通網絡和流動性是現代都市必不可少的元素。發展智慧城市需要大量互聯智能裝置配合，因此不能缺少智慧出行規劃。智慧城市應該四通八達，以市民的便利為依歸，讓訪客和居民都能輕易連接，人群和貨物的流動皆暢行無阻。智慧出行不但便利訪客和市民，還可以提升生活質素、提高能源的可持續性、交通安全和城市競爭力。

本獎項旨在鼓勵開發有利智慧出行發展的科技應用，希望集物聯網、人工智能、大數據分析、機械人技術和流動應用程式等科技之大成，為市民、遊客和貨物提供更優質的傳輸系統，改善本地人和遊客的交通體驗之餘，更使智慧出行系統更趨成熟，促進香港作為智慧城市的發展。

2. Championing HK as a Hub for ICT Talents, Creativity and Innovations

The Award programme will serve as a platform to facilitate the community to have a dynamic and transparent exchange of expertise with renowned ICT professionals, to sparkle and co-create innovative ideas, and to nurture technology talents. GS1 HK will also nominate appropriate winners to participate at other regional and global awards competition.

These recognising and nurturing initiatives will further stimulate the creativity of ICT talents.

3. Inspiring Local Industry Adoption

Innovation and technology are drivers for economic growth and the key to enhance business competitiveness. Award winning cases attest to the successful implementation, helping users in Transport, Logistics and Tourism to understand the value of smart business applications, encouraging industry adoption, creating a mutually beneficial interaction between technology and business sectors. These lead to a sustainable eco-system of technology-driven new business paradigm.

2. 匯聚資訊科技專才，打造創意創新之都

本計劃將成為本地業界與知名資訊及通訊科技專才的交流平台，藉雙方熱烈而坦誠的交流促進創新和合作，並培養科技人才。條件適合的得獎者更可獲香港貨品編碼協會提名競逐其他地區性及全球性獎項。

透過以上的嘉許和培育措施，可以迸發無窮的創意與創新。

3. 鼓勵本地業界採用得獎程式

創新和科技不但促進經濟增長，更是加強企業競爭力的關鍵。獎項對成功實踐智慧出行概念的個案予以肯定，使交通、物流和旅遊業用戶更了解傑出商業科技應用的價值，藉此鼓勵業界採用成功的技術，建立科技界與商界之間的互惠關係，構築以科技推動的嶄新可持續商業模式。

Message from Leading Organiser
籌辦機構獻辭

Ms. Anna LIN, JP, FCILT
Chief Executive
GS1 Hong Kong

林潔貽女士，JP，FCILT
香港貨品編碼協會
總裁

With the quarantine rules for travellers in Hong Kong gradually relaxed and the pandemic impacts subsided, the tourism, transport and logistics sectors are getting back on their feet, largely thanks to the great leap in innovation and technology (I&T) that drives more efficient and secure flow of information, people, goods and capital.

As the leading organiser of the Smart Mobility Award for the fifth consecutive year, GS1 Hong Kong is excited to see a record-breaking number of entries with almost 50% growth compared to last year. From self-service biometric identification system of airport, to the automated logistics centre with shared economy concept; and from a tech start-up perfecting indoor 3D mapping in HK, to a major property developer that adopts novel EV charging facilities, they have demonstrated a diversified and robust profile of Hong Kong's I&T ecosystem, instrumental to our smart city development.

Disrupted by COVID-19, the adjudication process this year continued to be tough, so on behalf of GS1 Hong Kong, I would like to express my sincere gratitude for the support from the Office of the Government Chief Information Officer, supporting organisations as well as our professional judging panel and assessment panel that have made the Smart Mobility Award a success.

We will work closely with the industry stakeholders and remain focused on our "Go Digital • Go Smart" strategy to support business on their digitalization journey, helping them emerge stronger as the economy rebounds.

My heartiest congratulations go to all winners, and huge applause to all participants. Besides their time and effort on joining the Hong Kong ICT Awards, they have contributed to the socio-economic development for our smart society.

隨著香港的出入境檢疫規定逐步放寬、疫情的影響減弱，旅遊、運輸及物流界別正穩步展現復甦。這實在有賴於創新科技(I&T)的迅速發展，帶動了更高效安全的「四流」暢通—包括信息流、人流、物流和資金流。

作為連續第五年成為「智慧出行大獎」的籌辦機構，香港貨品編碼協會很高興今年參賽作品數目能破歷屆紀錄，並較去年增長近50%。由機場的自助生物特徵識別系統、到具有共享經濟理念的自動化物流中心、以至本地初創致力簡化室內地圖製作，以及採用新型電動車充電設施的大型地產開發商，他們都展示了香港多元而蓬勃的創科生態，對本港智慧城市提供強力支撐 。

受疫情影響，今年的評審程序依然充滿挑戰，因此我謹代表香港貨品編碼協會，衷心感謝政府資訊科技總監辦公室、各支持機構、專業的評審委員會及審核委員會，使「智慧出行獎」得以順利舉辦。

我們將繼續與業界持份者密切合作，並專注推動本會「Go Digital • Go Smart」策略，支援企業數碼化進程，在經濟復甦時突圍而出。

本人在此恭賀所有得獎者及非常感謝各參與者。他們不僅為是次活動付出了時間及努力，還為智慧的城市經濟發展作出了貢獻。

Message from Chairman of Final Judging Panel
評審委員會主席獻辭

Ir Eric Ma
Chief Executive Officer
NWS Holdings Limited

馬紹祥工程師
新創建集團有限公司
行政總裁

I have the privilege to be the Chief Judge of the 2022 HKICTA Smart Mobility Award comprising streams of Smart Logistics, Smart Tourism and Smart Transport, which are the core components that help enhancing quality of life as well as bringing benefits to the public and our community at large. It gives me great pleasure to learn the many creative ideas and inspiration from the participants in which their commitment to pursue technological advancement to meet business and social needs is strongly marked.

Whilst challenges and uncertainties prevail the current operational environment, it is also the golden era for information and communication technology development as there is very little in our business and social lives where we do not look to technology for its future and success. I trust the further boost from the growing emphasis on STEM education to promote innovative thinking and nurture an I&T learning environment among our youth would continue to fuel our city's I&T atmosphere, with an aim to achieve resources optimisation and drive economy diversification.

A big round of applause to GS1 Hong Kong, who has once again successfully organised this year's Smart Mobility Award, for a smooth adjudication process conducted in a professional and efficient manner. In addition, my sincere appreciation for the time and inputs from the members of the judging panel whose collaborative efforts contributed to the recognition of this important Award.

Last but not least, my heartfelt congratulations to the deserving winners, whom have demonstrated their outstanding works and, more notably, their strong dedication to go above and beyond in shaping our city to make leaps forward!

能成為2022「智慧出行獎」的評審委員會主席，我感到非常榮幸。此獎項涵蓋了智慧物流、智慧旅遊及智慧交通三個領域，它們都是有助於提高社會生活質量，造福大眾的核心組件。從參賽者的方案中，我不但接觸到許多創新思維，他們的創意更是對追求技術進步以滿足商業和社會需要的強烈體現。

香港當前的經濟和營商環境依然充滿挑戰和不確定性，但同時也是資訊科技和通訊技術發展的黃金時代。現在不論是商業或是日常生活中的困難，我們都會主動向科技叩門，尋求解決方案。加上我們越來越重視STEM教育，著重培育青年創新思維和創科學習環境，積極推動香港的創科氛圍，用以實現資源優化和經濟多元發展，因為我們相信科技就是社會發展的未來。

今年「智慧出行獎」的評審過程得以順暢高效完成，實有賴香港貨品編碼協會團隊的專業和努力，同時我為他們連續五年成為此項目的籌辦機構予以熱烈掌聲。此外，我十分感謝評審成員的付出和支持，他們的共同努力再次促成了「香港資訊及通訊科技獎」這項業界年度盛事的完滿舉辦。

最後，我衷心祝賀本年度所有得獎者。他們的傑出作品充滿創新和突破，更值得鼓勵的是他們對推動這個城市的創科事業的堅定信念和拼搏精神！

Smart Mobility Award Judging Panel
智慧出行獎評審委員會

Chairman 主席

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NWS Holdings Limited
新創建集團有限公司
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會長

Smart Mobility Grand Award

and Smart Mobility (Smart Transport) Gold Award

智慧出行大獎

及 智慧出行 (智慧交通) 金獎

Airport Authority Hong Kong
香港機場管理局
www.hongkongairport.com

Flight Token Travel

Airport Authority Hong Kong has reinvented travel experience with the launch of Flight Token, a self-service biometrics technology empowered departure journey that increases passenger convenience, accelerates departures and enhances the accuracy of identity checks.

With this new touchless system, travellers can check-in at a smart check-in kiosk and create an electronic token which contained their biometric data and information on their travel document and boarding pass.

Passengers can then use their faces as identification for baggage drop off at self-bag drop facilities and pass through e-Security Gates and e-Boarding Gates.

To support the introduction of Flight Token, e-Boarding Gates have been installed at all departure gates on Level 6 of Terminal 1. Smart check-in kiosks were upgraded to accept electronic passports and facial recognition capabilities were rolled out at self-bag drop counters.

登機易

香港國際機場積極創造新旅遊體驗，包括推出「登機易」，一個以生物認證科技驅動的離港程序，務求為旅客帶來更多方便、加快離港程序及提高身分檢查工作準確性。

透過這個新的無接觸式系統，旅客在智能登記櫃檯辦理登記手續後，即可建立一個載有其生物特徵數據，以及旅行證件和登機證資料的電子身分認證，之後旅客便可使用自己的容貌作為身分認證，在自助行李託 運設施託運行李，再通過自助保安閘口及自助登機閘口。

一號客運大樓第六層所有登機閘口已完成裝設自助登機閘口，以配合「登機易」的推行。我們亦升級智能登記櫃檯的功能，以接納旅客以電子護照辦理手續，而自助行李託運櫃檯亦引入容貌辨識功能。

Comments from Judging Panel

Heralding in a new generation of airport services for travellers with innovative technology to enhance efficiency, the Flight Token minimises queueing and human errors, with focus on protection of personal data privacy at the same time.

It provides a “win-win” situation by reducing the staff cost at security check and boarding/baggage counters whereas the travellers are more satisfied with the seamless and paperless boarding journey.

評審委員會評語

「登機易」展現出新一代的機場服務，透過創新技術為旅客帶來更高效體驗，包括將排隊時間及人為錯誤減到最少，同時能注重保障個人數據私隱。

項目既能減省保安檢查及登機/行李櫃台的員工、節省開支，而旅客亦會對迅速及電子化的登機程序感到愜意。

Smart Mobility (Smart Transport) Silver Award
智慧出行 (智慧交通) 銀獎

eSIX Limited
易識有限公司

www.esix.co

5G+ Super Connector

eSIX helps enterprises use public 5G network to act as private fiber network, freeing up all wired networks in a smart city. It helps business improve flexibility, decrease deployment time and save cost.

With the number of IoT devices surging in Hong Kong, it is critical to have a secure and stable network. Yet, to maintain a secure private network requires large resources with high capability networking technology.

In view of this, eSIX developed a unique technology called IPfiber which aims to replace all the wirings with 5G technology, with very short latency and minimal installation.

The SD-Mesh networking solution has been deployed in many different types of business and organisations like ports, convenient stores, automotive, etc., helping them save millions of IT infrastructure cost as well as the maintenance to cost.

This solution consists of eSIX's Xatellite device, which is an industrial-grade CPE product with waterproof and ductproof capabilities, suitable for indoor and outdoor use. In addition, it runs with dual active modems which provide the zero-failover function to ensure all connections within a smart city to be unbreakable.

基於透傳網關的5G無縫互聯

eSIX幫助企業把公共的5G無線網絡轉變成私有光纖網絡使用，從而使智慧城市的網絡更有效地發揮其效能。企業可以靈活地使用網絡設備，減少安裝時間及節省成本。

香港的物聯網設備越來越多，需要一個穩定可靠的網絡。但對企業而言，要建設安全高性能的網絡卻需要高技術，而且成本非常昂貴。

有見及此，eSIX開發了IPfiber的獨特網絡技術，旨在以最少安裝時間建成5G網絡，提供高效少延遲的網絡服務，亦免除舖線。該SD-Mesh網絡方案現時已在港口、便利店、汽車等許多不同範疇應用。

這種解決方案幫助企業節省數以百萬計的IT基礎設施成本及維修開支。此外，它採用雙網絡模組，提供零故障轉移功能，確保智慧城市內的所有設備保持連接，企業無間斷地運作。

Comments from Judging Panel

5G is becoming a critical technology for supporting smart transport systems. eSIX's 5G+ Super Connector has delivered outstanding performance to ensure seamless integration of different telecommunication platforms for the provision of continuous communication service for smart transport operators under most aggressive environment.

評審委員會評語

5G網絡已成為支持智慧交通系統的關鍵技術。eSIX的5G+Super Connector能無縫連接不同電訊平台，使智慧交通營運商即使在嚴峻的環境下，都能提供持續可靠的服務。

Smart Mobility (Smart Transport) Silver Award
智慧出行 (智慧交通) 銀獎

Sino Parking Services Limited / Halo Energy Limited
信和停車場管理有限公司 / 希路能源有限公司

www.sino-propertyservices.com
www.halo-e.co

Electrifying Existing Car Park with Charging Technology to be EV-Ready

To support the growth of Electric Vehicle (EV) in Hong Kong, Sino Group has collaborated with Halo Energy Limited to provide upgraded EV parking bays.

At the pilot site, China Hong Kong City (CHKC), Sino Parking and Halo built 40 AC charging spots, making CHKC the largest universal EV charging hub in Tsim Sha Tsui. In collaboration with Shell Hong Kong Limited, 4 additional DC fast charging spots were installed, including the fastest 300kW charger in HK, capable of fully charging compatible EVs within 18 minutes.

Halo's patented Active Load Management System smartly allocates a limited supply of electricity among different charging spots, significantly reducing electricity demand. Coupled with universal chargers, compatible with all brands of EV, Sino Group's EV reach has been significantly broadened at CHKC.

Halo's computing system connects all EV chargers with the Halo Cloud to allow local and remote management. Customers can select a charging plan and monitor charging progress via the mobile app. With state-of-the-art technology, customers can now enjoy the best parking and charging experience at CHKC.

Sino Group and Halo aim to continuously provide optimal charging solutions to support the future development of EVs and encourage the adoption of green transport.

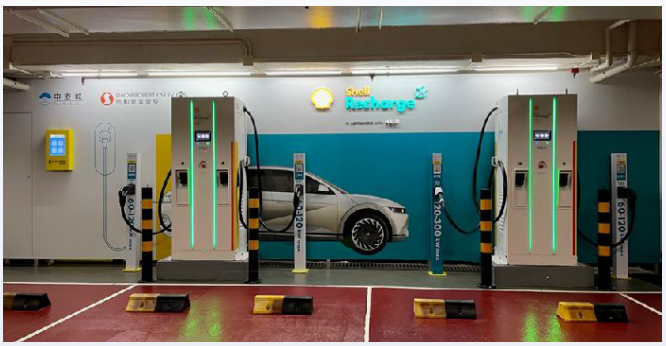
利用智能配電系統和充電平台電動化現有停車場

信和集團夥拍希路能源提升充電配套設施，以推動香港電動車的發展。信和停車場與希路於項目試點中港城建設了40個AC充電站，成為尖沙咀最大的電動車通用充電點；同時與香港蜆殼有限公司合作建設了4個快速充電站，其中一組充電速度達300kW，最快在18分鐘內完成充電，成為全港最快的電動車充電站。

希路的專利配電系統將電力智能分配予多個充電站，能夠大幅節省對充電站的電力負荷。配合兼容不同品牌車款的充電器，讓中港城可設置更多的充電站並服務更多客戶。

此外，希路的系統連接所有充電器及雲端，支援本地及遙距管理。駕駛者可透過手機程式啟動充電及監察充電情況，同時能於中港城體驗由該些先進技術帶來的優質泊車和充電服務。

信和集團及希路致力提供更多元化的電動車充電方案，促進電動車及綠色運輸的發展。



Comments from Judging Panel

One of the biggest challenges in promoting the use of EV is the limitation of power supply systems in existing buildings or shopping malls. Halo Energy's smart power distribution and charging system, through balancing the different charging needs of EV cars, has utilitised the limited power supply in existing buildings for providing more charging stations, conducive to the growing use of EVs.

評審委員會評語

在現存建築物或商場缺乏電動車充電站，是推廣電動車普及化的最大挑戰之一。Halo Energy的智能配電和充電系統，巧妙地利用現有建築有限的電力供應，平衡電動車不同的充電需求，從而提供更多充電站，鼓勵更多人使用電動車。

Smart Mobility (Smart Transport) Certificate of Merit
智慧出行 (智慧交通) 優異證書

Urban.Systems Company Limited
城系有限公司

www.ophyllaventures.com

MobiPro: Autonomous Vehicle Mobility-as-a-Service Solution

Developed by Urban.Systems Company Limited, the project "MobiPro: Autonomous Vehicle (AV) Solution", will be providing Hong Kong's first Mobility-as-a-Service ("MaaS") autonomous shuttle to the public at Hong Kong Science Park.

The project explores the innovative potentials with a focus on green and sustainable transportation solutions, while aiming to achieve the visions of Smart Mobility included in the Smart City Blueprint 2.0 published by the Innovation and Technology Bureau (ITB).

MobiPro integrates autonomous solutions, 4 inter-dependent systems, 5G networking, a micro-positioning engine, Vehicle-to-Vehicle (V2V), Vehicle-to-Infrastructure (V21), and Vehicle-to-Everything (V2X) technologies. These elements of the projects put forth the development of Intelligent Transportation Systems (ITS) in Hong Kong, enhancing accessibility of the city, and demonstrating the possibility of co- existence between conventional vehicles and autonomous vehicles in complex public road environments.

The 20-minute ride circulating in Science Park also aims to provide a top-quality on-road experience. MobiPro would make passengers on-board free from physically driving the vehicle, making themselves available for working on other tasks during their ride.

MobiPro：無人駕駛出行即服務方案

由城系有限公司研發的MobiPro自動駕駛車輛方案，是香港首個採用MaaS(Mobility as a Service)交通服務整合概念的規劃，為香港科學園及園外地區提供穿梭小巴服務。項目旨在探索綠色與可持續的創新交通方案，配合創新科技局在《香港智慧城市藍圖 2.0》勾劃出的智慧出行願景。

MobiPro集多項科技於一身，包括自動駕駛、4 個互通系統、5G 網絡、微型導航引擎、與及車對車(V2V)、車對基建(V21)、車對任何物件(V2X)的聯通科技等。此項目的各項科技要素都在切實推動本港智能運輸系統的發展。促進城市的交通及市民的流動性，並展示出傳統與自動駕駛汽車在複雜的道路環境中並存的可能性。

MobiPro在香港科學園區內提供約20分鐘穿梭小巴服務，讓乘客毋須像自駕時擔心道路情況，享受車上自我時間及優質的出行體驗。

Comments from Judging Panel

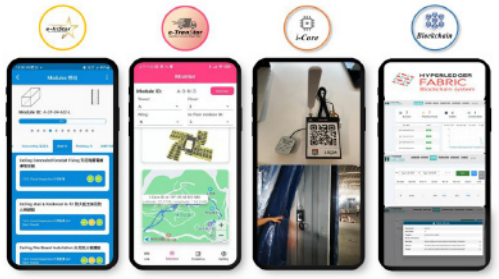
The MobiPro is capable of responding to external conditions to ensure it can drive safely, by combining a variety of sensors to perceive the surroundings, and the information obtained is then used to control the responsive actions of the car.The autonomous vehicle eliminate the issue of driving fatigue and careless driving behaviours. It stands out from the crowd because it is finishing the trial stage and soon be used in real-world environment, which can potentially reshape the future of public transport system.

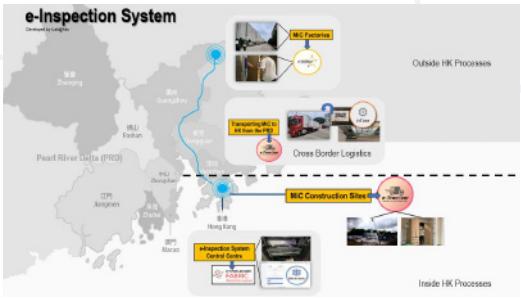
評審委員會評語

MobiPro結合了多種傳感器來感應周圍環境，然後將獲得的信息用於控制汽車，能夠對外在情況作出反應，確保安全。自動駕駛汽車能避免駕駛疲勞和粗心大意駕駛行為的問題。項目獲獎主要因為它正完成試驗階段，很快會在現實環境中試行，未來有機會改寫公共交通系統的發展。

Smart Mobility (Smart Logistics) Gold Award

智慧出行 (智慧物流) 金獎





iLab, Faculty of Architecture, The University of Hong Kong / Estates Office, HKU / Paul Y. Engineering / Logistics and Supply Chain MultiTech R&D Centre

香港大學建築學院智能城市建造實驗室 / 香港大學物業處 / 保華建業 / 物流及供應鏈多元技術研發中心

www.arch.hku.hk
www.estates.hku.hk
www.pyengineering.com/en

Remote e-Inspection System for Cross Border MiC Logistics

The e-Inspection system is a Supply Chain Quality Assurance system for cross- border modular integrated construction (MiC) production and transport. It includes i-Core, e-InStar and e-TranStar Apps and a blockchain-based backend. The innovations include:

- Blockchain Security of Quality Monitoring, Assurance, and Tracing of the Whole Production and Transport Process: The system uses photos and videos uploaded by e-InStar, and humidity, temperature, collision, and Proof of Location (POL) data collected by i-Core as blockchain oracle to ensure the authenticity of the uploaded data through cross-checking.

- Transparent Digital Secure Consensus Mechanism: The system transparently shares the remote quality inspection results through the blockchain distributed ledgers, and then requires endorsements from stakeholders through the blockchain consensus mechanism with MiC Module ID.

- Remote En-Route Quality Control: The i-Core and e-TranStar collect and visualise the modules' humidity, temperature, collision and POL information during transportation to control the quality and identify liability in the transport process.

The e-Inspection system revolutionised the production and use of MiC by digitally assuring the quality of MiC in the manufacturing and transport process. It reduces resources for supervision and paperwork and ensure tamper-proof data to help HK to build houses faster and safer, in the hope of relieving the pressing housing problem.

跨境(組裝合成)建築模塊物流的遠程電子檢測系統

e-Inspection是一個為跨境生產和運輸「組裝合成」建築(MiC)而設的供應鏈質量保證系統。e-Inspection包括i-Core，e-InStar和e-TranStar應用以及區塊鏈。其創新獨特之處包括：

- 生產和運輸全過程質量監控、保證和追溯的安全區塊鏈：e-Inspection使用e-InStar上傳的照片和視頻，以及i-Core收集的濕度、溫度、碰撞和位置數據進行交叉核對，確保區塊鏈上數據的真實性。

- 透明的數碼安全共識機制：通過區塊鏈分佈式賬本(distributed ledger)共享遙距質檢結果，然後通過其共識機制，讓持份者根據模組的識別碼認證結果。

- 遠程運輸質量監控：i-Core和e-TranStar在運輸過程中收集模組的濕度、溫度、碰撞和位置數據、並將數據展示，以確保產品質量和責任。

e-Inspection改革了MiC的生產和運輸流程，通過數碼化MiC供應鏈質量的保證，減少監管和文書工作，並確保數據不可篡改，以幫助香港安心加快建屋解民困。

Comments from Judging Panel

This remote e-inspection for MiC solution is an excellent showcase of a synergistical collaboration between academic and the construction industry for MiC remote inspection using latest innovative technologies to ensure construction quality and safety based on international standards. It has very good potentials for international adoption.

評審委員會評語

該MiC遙距電子檢測方案完滿展示了學術界與建築業之間，在MiC遙距檢測方面的協同合作。項目透過使用創新科技，確保符合國際標準的施工質量和安全，亦有潛力推廣到國際市場中應用。

Smart Mobility (Smart Logistics) Gold Award

智慧出行 (智慧物流) 金獎

Schenker International (H.K.) Limited / BPS Global Management Limited

全球國際貨運有限公司 / 威裕環球管理有限公司

www.dbschenker.com
www.bps-group.net

Asia's First Communal Automated Logistics Centre Integrated with Smart Manufacturing – AMC Automated Logistics Centre

In accordance with Hong Kong's re-industrialisation policy and to meet market demands for smart manufacturing, the first Advanced Manufacturing Centre (AMC) in Hong Kong is launched to provide a communal logistics area integrated with manufacturing and distribution services under one roof. As joint solution providers of AMC, DB Schenker and BPS Global Group work as long-term partners to provide logistics technology infrastructure and services.

The AMC automated logistics centre provides state-of-the-art logistics technology equipment including automatic pallet storage systems (AS/RS), four-way pallet shuttle system, automatic carton picking robots, high-speed conveyor lines, automatic carton elevator system, and high-speed 4-way carton shuttle system, automatic guided forklifts (AGF), etc.

These advanced hardwares are integrated and controlled by centralised Warehouse Execution Systems (WES), which optimises the overall performance and synchronise various logistics operations. AMC is an 8-storied building with a total internal floor area of 108,580 m^2 and covers 2.7 hectares of land.

Smart manufacturing is one of the cores of AMC and is the first manufacturing center in Asia that integrates automation, smart logistics solutions and cross-industry facilities.

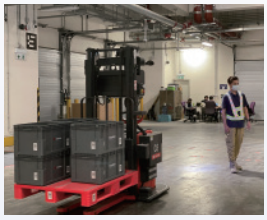
亞洲首個融合智慧生產的自動化共用物流中心 — AMC自動化物流中心

為配合香港再工業化政策及市場上智能化生產需要，全港首個先進製造業中心(AMC)正式開幕，是一個為企業提供包括生產及自動化供應鏈服務的共用物流基地。作為長期合作夥伴，德鐵信可(DB Schenker)及威裕環球集團(BPS Global)攜手為AMC提供物流科技基建和服務，是主要方案供應商之一。

AMC自動化物流中心提供領先的物流科技設備，包括自動托盤存儲系統、四面托盤傳輸系統、自動分揀紙箱機械人、高速傳送帶、自動紙箱升降系統、高速四面紙箱傳輸系統、自動導航叉車等。

中心內所有物流設備都通過中央倉庫執行系統(WES)來整合和操作，從而優化整體表現，令不同物流運作協調同步。AMC樓高8層、總內部樓面面積達108,580平方米，佔地27,000平方米。

AMC是亞洲首個集自動化、智能物流解決方案和跨行業設施於一體的製造中心，旨在推動智能製造的發展。



Comments from Judging Panel

Vertical storage is not a new concept in Hong Kong, but it usually owned or operated by one single entity. A change from the old concept of "having one's own warehouse", this new design allows several users to make use of the warehouse simultaneously in a vertical warehouse, achieving cost savings. Production lines are kept close to the warehouse which is accommodated within the same building, allowing just-in-time delivery. Forklift trucks can control cargo lifts for stock movement. It also helps smaller-scale companies to enjoy high tech facilities at a flexible range of costs.

評審委員會評語

新的垂直倉庫設計讓多個用戶同時使用倉庫，改變舊有「擁有自家倉庫」的概念，助企業節省成本。生產線與倉庫位於同一棟樓內，達致及時交貨；而叉車可以控制貨物升降機去移動庫存。凡此種種都能讓小型公司以較靈活的成本規模，享受高新科技設備。

Smart Mobility (Smart Logistics) Silver Award

智慧出行 (智慧物流) 銀獎

Kin Shun Information Technology (Hong Kong) Limited
建順資訊科技(香港)有限公司

www.zeek.one

Zeek SaaS Solutions

ZeekSolutions helps unlock businesses' full Quick Commerce potential, by automating, simplifying and optimising the way companies generate business and manage fulfilment, with the use of big-data and smart algorithms.

- OneStore is the next generation online store solution, helping merchants to easily build white-label online ordering channel, enabling closer engagement with customers and scaling up O2O business with:
  (i) full ownership of O2O membership data;
  (ii) flexible fulfilment choices;
  (iii) multi-store assignment to balance online-offline order density; and
  (iv) agile API integration and shop-in-shop capabilities.

- OneHub is an intelligent order management system, helping merchants to manage all deliveries, maximise order fulfilment and enjoy full visibility along the entire fulfilment journey by enabling:
  (i) multiple third party logistics partner integration;
  (ii) automated order assignment and reassignment process;
  (iii) multi-stakeholders synchronisation with real-time dashboard; and
  (iv) delivery geofencing management.

- OneFleet is an efficient in-house courier management system, helping merchants to upgrade the efficiency of their own in-house fleet. OneFleet provides well-functional courier APP synchronising backend on the below that can eliminate resource wastage and power up service quality:
  (i) real-time location tracking and routing tracing;
  (ii) automatic order assignment by configurable rules;
  (iii) roster planning and demand-driven courier mobilisation;
  (iv) KPI monitoring, incentives and training.

ZeekSolutions helps fortify every step along customer journey, internal operation and last-mile delivery with tailored end-to-end solution.

Comments from Judging Panel

Since the pandemic, eCommerce has become a new normal and imposed huge demand on delivery solution. Zeek is an independent One-stop Delivery Solution offering smart logistic solution and SaaS to SME.

Zeek SaaS Solutions

ZeekSolutions利用強大數據分析及智能系統運算技術、簡化營運流程、優化運輸調配，助商家開展快電商業務以拓展新客源之際，解決配送問題。

- OneStore協助商家建立自家品牌網上下單渠道，開展新營商場景：
  (i) 掌握會員數據進行線上線下互動；
  (ii) 精準轉化營銷為消費力；
  (iii)多分店服務區域規劃；
  (iv)靈活對接銷售和會員管理系統。

- OneHub智能物流平台和訂單管理系統，提升訂單付運率及物流供應鏈的全程透明度：
  (i) 自動化系統取代人手管理物流商流程；
  (ii) 適時調配後備物流商支援溢出訂單；
  (iii)同步通知顧客店面客服最新狀態；
  (iv)彈性調節配送範圍。

- OneFleet 車隊管理方案善用商家自家車隊的優勢，輕鬆管理及提升車隊工作效率。OneFleet提供易用車隊566即時一覽工作任務，連接後台，有助組織安排運輸分配，與車隊緊密連繫：
  (ii) 實時車隊位置和路線追蹤；
  (ii) 自訂準則智能派單；
  (ii) 動態運輸規劃和班表管理；
  (iv)遙距培訓和獎勵管理。

ZeekSolutions透過協助商家由顧客下單、備貨至最後一里配送優化每項細節，建立出一套專屬的全面方案。

評審委員會評語

自疫情以來，電子商務已成為新常態，而對運輸配送服務的龐大需求亦應運而生。Zeek是一個獨立的一站式運輸配送解決方案，為中小企提供具備軟件即服務(SaaS)選項的智慧物流方案。

Smart Mobility (Smart Logistics) Certificate of Merit
智慧出行 (智慧物流) 優異證書

CUHK Medical Centre
香港中文大學醫院
www.cuhkmc.hk

Smart Logistics for CUHK Medical Centre

CUHK Medical Centre (CUHKMC) has collaborated with DKSH Hong Kong Limited (DKSH) to design and implement an innovative service model to manage and operate logistics workflow for pharmaceutical products and medical consumables for CUHKMC.

An information flow framework has been established for the seamless communication of logistics related information among stakeholders including CUHKMC, DKSH and suppliers. The framework covers essentially all processes from raising purchase request, distribution, product exchange, goods receipts and invoicing. Electronic Data Interchange (EDI) is used for exchanging documents such as purchase orders and invoices. Data capture and verification are enhanced using GS1 barcode and handheld device.

This innovative service model with application of the ICT devices and system integration enables the hospital to uphold:

- Effective inventory management;
- Efficiency in managing logistics workflow;
- Data visibility with good documentation and record;
- Proper track and trace of transactions.

Medication safety is enhanced via the use of barcode verification with standard drug information. This service model also brings value to the patients as healthcare professionals can allocate their time and attention fully on patient care and patients' need, whereas drugs and consumables are managed in a safe and cost-effective manner.

Compared with the conventional workflow where extensive manpower and high inventory cost are usually needed, this model has greatly reduced manpower in managing the logistics workflow and inventory cost as well.

Comments from Judging Panel

The CUHK Medical Centre's deployment of the 3PL model with digitalization of the supply chain management of pharmaceuticals and medical consumables addresses the challenges of time and space in the dynamic setting of the hospital. With the integration of system with an external partner, Such effective inventory management and just-in-time delivery facilitates data-driven decision, while the smart logistics solution helps to deliver enhanced quality and more cost effective service for the end users.

香港中文大學醫院 - 智慧物流

香港中文大學醫院(下稱「中大醫院」)與大昌華嘉香港有限公司(下稱「大昌華嘉」)合作，設計及推行嶄新的服務模式，以管理中大醫院的藥品及醫療消耗品的物流。

中大醫院、大昌華嘉及供應商三方之間建立了資訊流通框架，令各持份者在物流上溝通無間。該框架基本上涵蓋了所有流程，包括發送採購單、分發貨物、退換貨品、收貨和開票。在採購單和帳單等文件的傳遞上應用了電子數據聯通(EDI)；GS1條碼和手提掃描器的運用亦加強了數據擷取的效率和資料核實。

這種創新服務模式配合資訊及通訊科技設備的運用及系統整合，使中大醫院能夠實現：

- 有效的庫存管理；
- 高效的管理物流工作流程；
- 良好的數據透明度及物流紀錄；
- 妥善的交易追蹤。

透過條碼核實和標準藥物資訊，藥物安全亦得以提升。這種服務模式能為醫院的病人帶來裨益，因為醫護人員能夠把時間和注意力集中到病人護理上，並且以安全和具成本效益的方式管理藥物和消耗品。

傳統的藥品和醫療消耗品管理模式往往需要大量人力資源和高庫存成本，而上述的服務模式則能大大減低相關的人力和庫存成本。

評審委員會評語

醫院採用第三方物流管理模式，將藥品和醫用耗材供應鏈管理數碼化，應對醫院環境動態的時間和空間的挑戰。高效的庫存管理和及時傳送都有助數據驅動的決策，同時智慧物流方案亦為用戶提供更高質量和更具成本效益的服務。

Smart Mobility (Smart Tourism) Gold Award
智慧出行 (智慧旅遊) 金獎

Maphive Technology Limited / Lands Department
蜂圖科技有限公司 / 地政總署

www.mapxus.com
www.landsd.gov.hk

Creation of 3D Indoor Map for Smart City Mobility

The traditional indoor cartographic process often involves heavy manpower and paper-based tools, such as physical floor plans, especially for on-site tasks. While Building Information Modelling (BIM) has been introduced in architectural design, construction and facility management, the BIM framework does not completely support Points of Interest (POI) search and wayfinding features. Moreover, BIM mainly focuses on new establishments, while many buildings in Hong Kong, especially the old ones, lack BIM data.

The technology jointly developed by the Lands Department and Maphive Technology Limited in the project will make the creation and showcasing of the 3D Indoor Map more efficient. It will be particularly imminent for premises to provide public services such as hospitals, clinics, libraries and performing venues where indoor navigation and facility management function is more effective with the 3D Indoor Map.

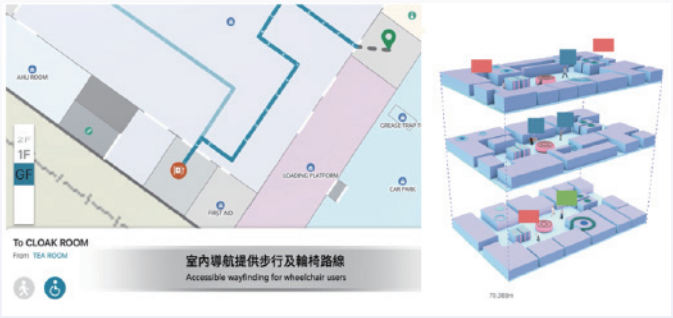
Furthermore, with the integration of the Lands Department's 3D Pedestrian Network, the public can enjoy seamless indoor-outdoor wayfinding & navigation experience to support government, industry, academia, research and the public with a broader range of smart mobility applications, so that everyone can better appreciate the convenience a smart city can bring to their daily lives.

利用三維室內地圖建立智慧城市出行

傳統室內製圖過程，一般涉及大量人力和紙本工具。即使建築信息模擬(BIM)已引入建築設計、施工和設施管理，但BIM框架並不完全支援室內熱點(Point of Interest)的數據搜索和尋路功能。此外，BIM主要針對新建建築，而香港的許多建築，尤其是舊建築，卻缺乏BIM數據。

地政總署和蜂圖科技有限公司聯合開發出的技術，有助加強三維室內地圖的創建過程和展示能力。這對於公共服務的場所，如醫院、診所、圖書館、表演場地等尤其重要，因為三維室內地圖可以增強室內導航和設施管理等功能。

配合地政總署的三維行人道路網，市民可以享受室內外無縫的尋路導航體驗，以支援政府、產業、學術、研究和公眾更廣泛的智慧出行應用，令大家更感受到智慧城市為日常生活帶來的便利。



Comments from Judging Panel

As the extension of a previous project focus on 3D outdoor mapping initiated by Lands Department, this indoor 3D mapping will resolve the shortfall that users have no idea of the facilities context inside buildings shown on the 3D map. The solution can tell users about the functions of all buildings displayed on the map with periodic update which can help visitors plan their routing well ahead, thereby enhancing the city mobility.

評審委員會評語

現時有些大型商場或寫字樓可能已有自身的3D地圖，但由於地圖的設計和重點會有所不同，訪客往往需要進入建築物才能掌握該大廈佈局。地政總署繼早前啟動室外3D地圖項目，是次策劃的室內3D地圖、會有助用戶輕鬆得悉建築物內的設施環境，顯示出建築物的功能，並作定期更新，幫助訪客提前規劃他們的路線，從而增強城市的出行流動性

Smart Mobility (Smart Tourism) Silver Award
智慧出行 (智慧旅遊) 銀獎

Klook Travel Technology Company Limited

www.klook.com

Klook's Dedicated Booking & Distribution Solutions for Global Partners

Designed to help customers find their joy with travel and experiences, Klook platform has expanded beyond its original purpose to support its customers and merchants with B2B2C SaaS (Software-as-a-Service) and offline products and services. As a tech-travel company, Klook has been offering advanced booking and distribution solutions to support its partners accelerating digital transformation.

Key solutions include White-label Booking Engine, which leverages the success of Klook platform to scale bookings for merchants globally, processing over 100,000 transactions monthly. To maximise reach and coverage for our merchants using the latest marketing tools, Klook also enables Google Things-to-do Booking Module, and Express Go! that supports omni-channel to meet the needs of travelers and merchants.

In a span of 18 months, Klook has already expanded to 14 destinations globally, empowering more than 225 merchants with their digitalisation needs. To date, there have been over 1 million customers who have purchased attractions tickets on its partner websites in 2022.

Earlier this year, the company launched Flickket, a new trade platform that gives travel operators access to content management tools, online booking capabilities and third-part distribution channels, in the hope of driving the travel industry to build digital capabilities and become future-ready in the digital era.

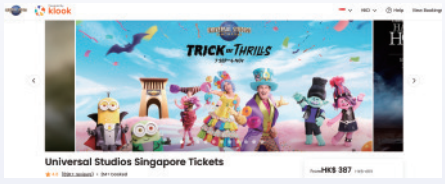
Klook's Dedicated Booking & Distribution Solutions for Global Partners

Klook旨在協助客戶在其平台上通過旅遊及體驗尋找快樂。公司發展至今已超越了原來目標，通過B2B2C的軟件即服務(SaaS)及實體產品和服務，為客戶及商戶提供支援。作為一家科技旅遊公司，Klook一直提供領先的預訂及分銷解決方案，助合作夥伴加速數碼化轉型。

公司的主要方案包括White-label預訂引擎，透過Klook網上平台來擴大包括來自全球商戶的預訂。公司通過White-label技術每月處理超過10萬宗交易，亦啟用了Google Things-to-do預訂模組，將商戶的覆蓋範圍擴大。另一個解決方案Express Go！能支援多渠道以滿足旅客及商戶的需求。

在18個月內，Klook平台已擴展到全球14個目的地，協助超過225個商戶實現數碼化。至今已有超過100萬客戶於合作夥伴網站上進行景點相關活動的預訂。

公司早前推出了新的商貿平台Flickket，為旅遊營運商提供內容管理工具、網上預訂功能和第三方分銷渠道，冀能推動旅遊業數碼化進程，為他們在數碼時代作好準備。



Comments from Judging Panel

Klook has developed a new smart white-labeled platform for small and independent tourism business, offering them effective yet simple solution by connecting ticket suppliers, hotel and tourism spots that enhances their product portfolio, as well as new customer segments. The solution accelerates SMEs on their digitalisation journey, helping the industry to upgrade to a new level.

評審委員會評語

Klook為小型和獨立的旅遊公司開發了一個新的智慧「白頁」(white-labeled)平台，通過連接票務供應商、酒店和旅遊景點，讓他們增強自身產品組合並擴大客戶範圍，是一個簡單有效的方案。平台為中小企數碼化增速，帶動行業提升到新發展層次。

Smart Mobility (Smart Tourism) Silver Award
智慧出行 (智慧旅遊) 銀獎

Timable Limited
合時行樂

timable.com

Timable

Timable is an event and leisure searching platform in Hong Kong in forms of website, mobile app and social media channels allowing users to search for leisure activities anytime and anywhere.

Over 300,000 events including concerts, performances, exhibitions, hot spots and family-friendly happenings have been covered since platform launch, which is one of the most complete information aggregators in local market. It provides 3 languages (traditional Chinese / simplified Chinese and English) so that both locals and foreigners can make use of the app easily. Users can search for happenings, venues and F&B by time, district, interests and accompanist efficiently.

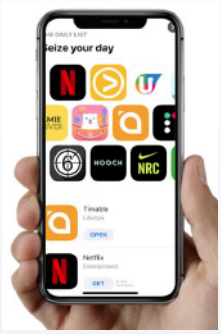
Other than being a tool for travelling in Hong Kong, Timable also provides a one-stop-shop solution for event organisers from promotion to ticketing and pre-registration, and Timable has just launched a real-named ticketing solution on Whatsapp as well. Timable is planning to expand to the Greater Bay Area and other Asian markets, exporting the innovation technology of Hong Kong to the mainland and overseas.

Timable

Timable是一個本地活動及休閑搜尋平台，設有網頁、手機應用程式(App)及社交媒體頻道，讓用家隨時、 隨地「搵嘢玩」。

多年來提供超過30萬項本地活動資訊，包括演唱會、表演、展覽、打卡熱點及親子活動等，是現時本地市場其中一個活動資訊最齊全的平台。網站及App均提供三種語言選擇(繁中/簡中/英)，無論是香港人或外國遊客都能輕鬆使用。用戶可按照四大方向 — 時間、區域、活動類型及同行對象，搜尋到合適的本地活動、景點及餐飲。

除了是大眾本地遊的工具，Timable亦能滿足活動主辦方的需要，提供由宣傳到售票或預先登記之一站式服務。最近更推出於通訊軟件WhatsApp上的實名制售票服務。Timable計劃發展大灣區及亞洲市場，把香港的創科輸出到國內及海外。



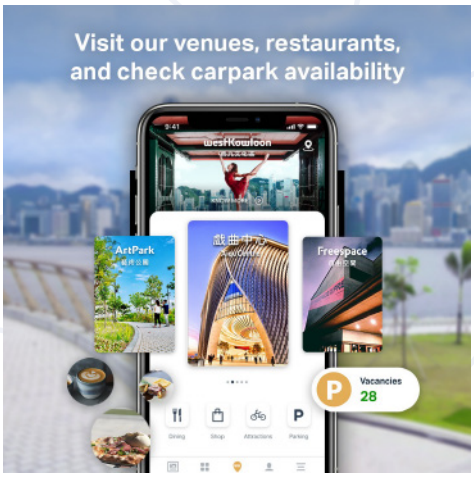
Comments from Judging Panel

The website and app interface of Timable are easy-to-navigate, helps users search for local activities anytime, anywhere. The rich and practical event contents meet the needs of people from all ages. By providing latest happenings especially music and art programmes for the locals and travelers, Timable supports promoting Hong Kong culture and drive the growth of local cultural development.

評審委員會評語

Timable網頁及App的介面簡單，內容豐富和生活化，適合任何年齡人士使用，方便用家隨時隨地搜尋本地活動資訊。對於社會發展而言，不論港人及旅客都能從Timable得知最新本地活動資訊，特別是音樂及藝術節目，間接宣揚香港文化。

Smart Mobility (Smart Tourism) Certificate of Merit
智慧出行 (智慧旅遊) 優異證書



West Kowloon Cultural District Authority
西九文化區管理局

www.westkowloon.hk

West Kowloon Cultural District Mobile App

The West Kowloon Cultural District App uses Augmented Reality (AR) technology and Beacon location technology to enhance visitor experience by combining innovative AR digital features and artwork with useful functions. With the AR function turned on in the mobile app, visitors can discover the West Kowloon Cultural District in a fun and easy way.

Using AR wayfinding and interactive maps, the mobile app provides a hassle-free means of navigating the District by mapping the quickest route between different points at-a-glance. Visitors can also explore more of the District and venues through a unique AR experience, using fun AR filters to snap photos and keep as a memorable souvenir.

Furthermore, visitors can purchase admission tickets, register for events, browse dining options, facilities information, and check parking space availability.

Other features include:

- Receive event reminders and ticket-on-sale alerts to ensure visitors won't miss out on shows;
- Manage "MyWestKowloon" account and get personalised event recommendations;
- Read articles and stories about the District for inspiration;
- Discover places to relax, find key sights, restaurants and toilet facilities.

西九文化區應用程式

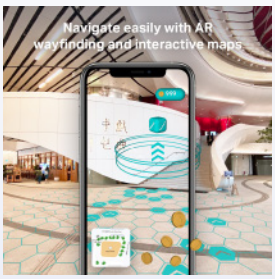
西九文化區手機應用程式利用擴增實境(AR)技術提供更佳的訪客體驗。訪客啟動AR功能後，可以更方便地探索西九文化區的設施、活動及實用資訊；導航功能和互動地圖配合信標(Beacon)定位，為訪客提供最快捷路線，前往西九文化區各目的地。

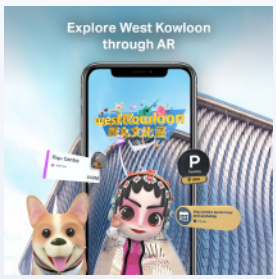
透過AR鏡頭即時提供附近活動、設施及景點標牌；亦內置有趣好玩的AR濾鏡讓用戶拍照留念。

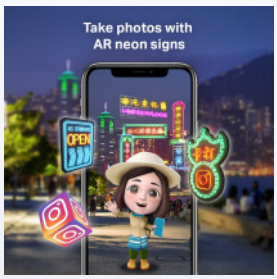
另外，訪客可使用應用程式購買節目門票和登記參加活動、瀏覽場地及餐飲資訊，以及查看各個停車場的空位數量。

其他功能包括：

- 活動提醒或售票提示訊息推送；
- 管理MyWestKowloon帳戶及喜好設定，獲得個人化活動推介；
- 瀏覽介紹西九文化區節目和設施的精選文章和故事；
- 探索區內放鬆去處、打卡景點、餐廳及洗手間設施。







Comments from Judging Panel

WKCDA is a huge integrated arts and cultural district with lots of culture, entertainment and tourism programmes taking place at different buildings/zones. The WKCDA mobile app provides user-friendly information to help visitors identify events that interest them, hence, making their lives much easier and their experience unique.

評審委員會評語

西九文化區是一個龐大的綜合藝術文化區，在不同的建築物/區域舉辦了許多文化、娛樂和旅遊節目。西九文化區手機應用程序提供方便用戶的信息，為訪客推薦他們感興趣的活動，帶來便利及獨一無二的體驗。

Introduction of Leading Organiser
籌辦機構簡介

About GS1 Hong Kong

Founded by the Hong Kong General Chamber of Commerce in 1989, GS1 Hong Kong is the local chapter of GS1®. GS1 Hong Kong's mission is to empower businesses of their digital transformation, improve supply chain visibility and efficiency, ensure product authenticity and facilitate commerce connectivity, through the provision of global supply chain standards (including GTIN & barcodes), and a full spectrum of platforms, solutions and services.

GS1 Hong Kong currently supports close to 8,000 corporate members from 20 sectors including retail & consumer packaged goods, food & beverage and food services, healthcare, apparel & footwear, logistics & ICT. By working closely with communities of trading partners, industry organizations, government, and technology providers, we can foster a collaborative ecosystem with the vision of "Smarter Business, Better Life".

As a non-profit organization, GS1® develops and drives global adoption of supply chain standards. Headquartered in Brussels, Belgium, has over 115 national chapters in 150 countries.

Website: www.gs1hk.org

關於香港貨品編碼協會

香港貨品編碼協會(GS1 Hong Kong)於1989年由香港總商會成立，是GS1®環球組織的香港分會，提供全球供應鏈標準(包括產品編碼及條碼)及一系列相關平台、解決方案及服務，助企業數碼化，提升供應鏈透明度及效率、確保產品真確性、促進線上線下貿易。

GS1 Hong Kong目前有近8,000名企業會員，涵蓋約20種行業，包括零售消費品、食品及餐飲、醫療護理、成衣、物流及資訊科技。本會與各貿易夥伴、業界組織、政府及資訊科技公司積極建立協作生態，實踐「智能商貿，優質生活」的願景。

GS1®是一家提供全球供應鏈標準的非牟利組織，總部位於比利時的首都布魯塞爾，擁有超過115個分會，遍及全球150個國家。

網址: www.gs1hk.org

Acknowledgement
鳴謝

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Smart Mobility Award Assessors Panel 智慧出行獎審核委員會

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Incu-Lab

Smart Tourism 智慧旅遊

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GS1 Hong Kong
香港貨品編碼協會

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- Hong Kong Science and Technology Parks Corporation 香港科技園公司
- Hong Kong Trade Development Council 香港貿易發展局
- Innovation and Technology Commission 創新科技署
- Invest Hong Kong 投資推廣署

Supporting Organisations 支持機構

- Communications Association of Hong Kong 香港通訊業聯會
- Connected Cities Alliance
- Federation of Hong Kong Industries 香港工業總會
- Hongkong Association of Freight Forwarding & Logistics Ltd. 香港貨運物流業協會
- Hong Kong Container Terminal Operators Association Limited 香港貨櫃碼頭商會有限公司
- Hong Kong Electronics & Technologies Association 香港電子科技商會
- Hong Kong Hotels Association 香港酒店業協會
- Hong Kong Internet of Things Alliance
- Hong Kong Logistics Association 香港物流協會
- HKRMA
- Hong Kong Retail Technology Industry Association 香港零售科技商會
- Hong Kong Sea Transport & Logistics Association 香港航運物流協會
- Hong Kong Shippers' Council 香港付貨人委員會
- Incu-Lab
- Institute of Dining Professionals 稻苗飲食專業學會
- ITS Hong Kong
- Internet Society Hong Kong Chapter
- LSCM Logistics and Supply Chain MultiTech R&D Centre 物流及供應鏈多元技術研發中心
- SCC 智慧城市聯盟 Smart City Consortium
- SSRI
- CHKLI 香港物流商會
- The Chartered Institute of Logistics and Transport
- 香港大學 工業及製造系統工程系 Department of Industrial and Manufacturing Systems Engineering The University of Hong Kong
- 香港旅遊業議會 Travel Industry Council of Hong Kong

Scoring System 評分系統

- tagdigital
- HKITDA 香港創科發展協會