



HONG KONG
ICT AWARDS
2023 香港資訊及
通訊科技獎

Smart Mobility Award 智慧出行獎



Leading Organisation
籌辦機構



Hong Kong

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2023香港資訊及通訊科技獎：智慧出行 (智慧物流) 獎

Gold Award 金獎

Airport Authority Hong Kong / Accenture Company Limited
機場管理局 / 埃森哲有限公司

HKIA Cargo GBA Sea-air
Transshipment Facilitation Application
香港國際機場「大灣區海空聯運數據應用系統」

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Silver Award 銀獎

Geek+ / Hongkong Post
極智嘉 / 香港郵政

Robotic Packet Sorting System
機械人郵包分揀系統

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Bronze Award 銅獎

GP Electronics (HK) Limited / BPS Global Management Limited
金山電子 (香港) 有限公司 / 威裕環球管理有限公司

The Smart Logistics System in
GP Electronics Huizhou Factory
金山電子惠州工廠智慧物流系統

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Certificate of Merit 優異證書

FreightAmigo Services Limited
友貨運控股有限公司

FreightAmigo — Financing, Insurance,
Logistics in One Platform
FreightAmigo — 融資，保險，
物流一站式平台

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Hong Kong ICT Awards 2023: Smart Mobility (Smart Transport) Award

2023香港資訊及通訊科技獎：智慧出行 (智慧交通) 獎

Gold Award 金獎

Maphive Technology Limited / Spatial Data Office,
Development Bureau / Energizing Kowloon East Office,
Development Bureau
蜂圖科技有限公司 / 空間數據辦事處 / 起動九龍東辦事處

Smart Navigation Tool for The
Visually Impaired/People In Need
為視障人士/有需要人士設計的智慧出行
導航工具

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Silver Award 銀獎

The Kowloon Motor Bus Company (1933) Limited
九龍巴士 (一九三三) 有限公司

Digitally connected bus service via
all-in-one, App1933
App1933: 一站式數碼連接巴士服務

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Bronze Award 銅獎

Hong Kong Observatory
香港天文台

Estimation of Standing Water
Conditions on Airport Runways
機場跑道積水情況估算

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Certificate of Merit 優異證書

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Routejam
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Locolla Limited / Transport Department, The Government of
the HKSAR
樂區採 / 香港特別行政區政府運輸署

Smart Shared Power-assisted
Pedal Cycle Platform
智能共享電動輔助單車平台

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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 2023. 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。

2023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」。

Objective 目的

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

Mobility is essential if a city is to function properly, and is experiencing one of the most disruptive. Innovations in digitalisation and alternative energies, episodes evolving in previous decades, are unleashing their potential on the streets, forming the bases of smart mobility. Smart mobility is one of the core subjects of any smart city, it involves optimising transportation, infrastructure and communications in order to raise the bar for sustainability, efficiency, safety and air quality. A smart city should be connected and citizen-centric to enhance interconnectedness of every aspect of daily life, bringing more convenience, better quality of life, and a higher level of 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, robotic, digital communications, intelligent transport systems, data platforms, 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.

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

The award will serve as a platform to facilitate the dynamic and transparent exchange of expertise among renowned ICT professionals in the community, 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. We hope that through these recognising and nurturing initiatives, it will further stimulate creativity.

3. Inspiring Adoption by Local Industry

Innovation and technology are drivers for economic growth and the key to enhance business competitiveness. Award winning cases attest to successful implementation, helping users in Transport, Logistics and Tourism industries 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 which not only improves the daily lives of users but also brings jobs, innovation, and the creation of new start-ups with high-growth potential.

1. 鼓勵開發嶄新智能應用，同建香港智慧城市藍圖

流動性是現代都市的基本元素，而它正經歷著顛覆性變化。數碼化和新能源在過去幾十年不斷發展，在每個城市街道上展現各種可能性，成為智慧出行的基礎。智慧出行是建立智慧城市的關鍵，涉及優化交通、基建和通訊，能打造出可持續性、效率、安全和空氣質量的新標準。智慧城市應該互聯互通，以市民為中心，加強日常生活各個方面的聯繫，帶來更多方便、更好的生活質量和更高競爭力的城市。

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、數碼通訊、智能交通系統、數據平台、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，更使智慧出行系統趨向成熟，促進香港作為智慧城市的發展。

2. 匯聚資訊科技專才，打造創意創新之都

本獎項將成為本地業界與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，並培育科技人才。符合條件的得獎者更可獲香港貨品編碼協會提名，爭逐其他地區性及全球性獎項。通過這些業界認同和栽培項目，期望進一步激發參賽者的創新。

3. 鼓勵本地業界採用得獎方案

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理念的個案予以肯定，使交通、物流和旅遊業用戶更了解商業應用的價值，藉此鼓勵業界採用方案，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，當中不僅包括改善市民的日常生活，還帶來就業機會和具有高增長潛力的新初創企業。

Message from Leading Organiser 籌辦機構獻辭



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

林潔貽女士，MH，JP，FCILT
香港貨品編碼協會
總裁

Mobility is entering a new age of innovation in Hong Kong. HK eToll has been implemented at most government tolled tunnels to accelerate payment and ease congestion, whereas the expansion of the existing express air cargo terminal, redevelopment of Air Mail Centre, along with the third-runway project by Hong Kong International Airport are reinforcing Hong Kong's premier logistics and travel hub position, shaping today's urban smart mobility landscape.

As the leading organiser of the Smart Mobility Award for the sixth consecutive year, GS1 Hong Kong is delighted to see the robust I&T development and adoption of creative applications in the city. This year we herald beyond the public and private sector winners, but also celebrate the creative mind of individual who has made use of generative AI, data analytics and other technologies to provide latest traffic information.

While some awardees have integrated the trending "green" elements in their innovations, like the water-proof, portable outdoor power supply with green energy storage, some winning entries are commended for their universal applications across regions, like the location tracking system using satellite, showing great potentials that can benefit a wider community.

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. GS1 Hong Kong will continue to focus on our "Go Digital • Go Green" strategy and work closely with the Government to support Hong Kong's development into a world-class smart city.

Lastly, I would like to extend my heartiest congratulations to all winners and hats off 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.

本地的流動性 (Mobility) 正迎來一個充滿創新的全新面貌。政府收費隧道今年內陸續實施「易通行」，方便加快繳費和緩解擠塞；而隨著現有的速遞貨運站擴建、空郵中心重建，以及香港國際機場第三跑道項目等，都有助鞏固香港在區內的物流和旅遊樞紐地位，塑造現今智慧出行新氣象。

香港貨品編碼協會作為連續第六年「智慧出行獎」的籌辦機構，我們欣見本地創新科技正蓬勃發展，業界同時積極應用。今年我們不僅褒獎公私營界別的優勝者，也要表揚獨立參賽者的創意，譬如利用生成式AI、數據分析和其他科技提供最新交通資訊的項目。

部份獲獎者在項目中融入了近期流行的環保元素，例如是具備綠色能源儲電功能的防水便攜式戶外電源；也有獲獎作品因其跨地區的應用領域而受到讚揚，例如以衛星去進行定位追蹤的系統等，顯示出讓更廣大社區受惠的潛力。

本人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的鼎力支持，令本屆「智慧出行獎」得以順利舉行。本會將繼續與政府及各業界合作夥伴緊密聯繫，共同推動香港成為一個世界級的智慧城市。

我們將繼續與政府密切合作，並專注推動本會「Go Digital • Go Green」策略，支援香港發展成為世界級智慧城市。

最後，本人在此恭賀所有得獎者及非常感謝各參與機構。他們不僅為是次活動中付出了時間及努力，還為智慧社區的社會經濟發展作出了貢獻。

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



The Honourable Duncan CHIU
HKSAR Legislative Council Member
Technology & Innovation Constituency

邱達根
香港特別行政區立法會議員
科技創新界

I am delighted to participate in judging panel of the 2023 HKICTA Smart Mobility Award, which brings together the best minds to share their expertise and experience in ICT applications.

Hong Kong is a small and densely populated city. To cope with the ever-increasing demand for transport and traffic, in addition to further enhancing the public passenger transport system and expanding the road network, the Government has devoted significant resources in implementing various smart mobility initiatives under the Smart Mobility Roadmap for Hong Kong and the Smart City Blueprint for Hong Kong 2.0.

As I observed during the judging process, the innovation, design, research and development (R&D) of the submitted ICT products or services tends to focus on three interrelated key elements. First, the combination of infrastructure and the use of advanced technology lays the foundation of smart mobility. Second, the data collected through the infrastructure could be analysed and disseminated to support traffic management and meet the needs of transport users. Third, with the infrastructure and rich data, various service providers could develop applications and services to tackle individual traffic problems.

In recent years, more and more cities on the Mainland and around the world have been striving to develop smart mobility through the use of ICT. Looking ahead, I believe that applicants in the coming years will present some long-awaited solutions, such as AI algorithms that optimize traffic flow or predict potential safety hazards.

Thanks to the OGCIO and GS1 Hong Kong for organising such a meaningful event. I would also like to extend my heartfelt congratulations to the winners, and my sincere appreciation to the members of the judging panel for their contribution. I eagerly anticipate meeting and sharing with more promising IT talents next year.

我十分高興能夠參與今屆「智慧出行獎」的評審工作。這項一年一度的盛事匯聚了業內的優秀人才，展示他們在資訊及通訊科技應用上獨當一面的知識和經驗。

香港地少人多，為應付日益增加的交通運輸需求，除了發展公共客運系統及擴展道路網絡外，政府亦不遺餘力地落實《香港智慧出行路線圖》及《香港智慧城市藍圖 2.0》當中各項結合交通運輸和先進科技的措施。

據我在評審過程中觀察所得，參賽者提交的產品或服務無論在創新、設計、研發等方面，一般都能體現三個互相緊扣的元素。第一，配合先進科技的智能運輸基礎建設是推展智慧出行的基石；第二，通過基礎設施收集的數據經分析和發放後，不但可以協助運輸規劃和交通管理，也可以滿足交通使用者的需求；第三，有了基礎設施和豐富的數據資源，各服務提供者可研發一系列智慧出行的應用和服務，以解決個別交通問題。

近年，越來越多內地及海外城市致力發展智慧出行，利用資訊及通訊科技改善交通。展望將來，我相信「智慧出行獎」的參賽者會提交一些令人期待已久的解決方案，例如利用人工智能演算法優化整體交通流，預測行程上的潛在安全隱患等。

我要感謝政府資訊科技總監辦公室和香港貨品編碼協會籌辦如此有意義的活動。除了向獲獎者表示衷心祝賀，我也要感謝評審委員會全體成員的付出。我期待明年與更多有潛質的參賽者會面和分享。

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

Chairman 主席



Hon Duncan CHIU 邱達根議員
Functional Constituency -
Technology and Innovation,
Legislative Council of
the HKSAR
香港特別行政區立法會
立法會議員 (科技創新界)

Deputy Chairman 副主席



Ir Susanna SHEN, MH 孫淑貞工程師, MH
Head of Corporate IT
The Hong Kong and China Gas Company Ltd.
香港中華煤氣有限公司
企業資訊科技總監

Members 成員



Ms Lily LAI 黎秀琮女士
Chief Information Officer
Airport Authority Hong Kong
香港機場管理局
首席資訊主管



Ms Sylvia CHUNG 鍾慧敏女士
Chief Business Impact Officer
Chinachem Group
華懋集團
企業體驗總裁



Ir Stephen LAU, JP 劉嘉敏工程師, JP
Secretary General (Honorary)
Hong Kong Computer Society
香港電腦學會
秘書長(名譽)



Ir Elsa YUEN 袁美儀工程師
President
Hong Kong Logistics Association
香港物流協會
會長

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

Members 成員



Ir Dr Venus LUN 倫婉霞博士工程師
Editor-in-Chief
International Journal of Shipping and
Transport Logistics
航運及物流國際期刊
總編輯



Ms Wendy CHOW 周寶芬女士
Head of Innovation and Technology -
Information & Communications Technology
Invest Hong Kong
投資推廣署
創新及科技行業主管 - 資訊及通訊科技



Mr Benny LEUNG 梁展鵬先生
Chief Systems Manager (Digital Identity)
Office of the Government
Chief Information Officer (OGCIO)
政府資訊科技總監辦公室
總系統經理 (數碼個人身分)



Dr Toa CHARM 湛家揚博士
Associate Professor of Practice
in Innovation and Technology, Business School,
The Chinese University of Hong Kong
香港中文大學
商學院創新及科技專業應用教授

* In alphabetic order by company / organisation name

* 按公司 / 機構名稱字母順序排列

Smart Mobility Grand Award and Smart Mobility (Smart Tourism) Gold Award

智慧出行大獎 及 智慧出行 (智慧旅遊) 金獎

TriTerra Technology Limited

賽特立科技有限公司

www.triterrapower.com



Kaihon1000 Smart Power Station

Kaihon1000 Power Station serves 3 major aspects – 1) Outdoor Power Supply, 2) Green Energy Application, 3) Emergency Power Supply.

Kaihon1000 contains 1000Wh energy capacity with 7 different types of power output sockets, and outputs 1250W to support basically any kind of electrical appliances. Kaihon1000 is obsessed with high-quality design, technological innovation, and smart application.

In terms of high-quality design, Kaihon1000 adopts original product design with bright color scheme to create a youthful and sunny brand difference. In addition, users can intuitively control the operation of the system through the touch screen on the product panel.

Technological innovation is reflected in the LLC resonant inverter technology with an efficiency of up to 97% to achieve true IP55 weatherproof-safety applications and compact product size. Each socket of Kaihon1000 can be independently switched and programmed to meet the needs of smart home applications. The product's built-in UPS function continues to provide power to important instruments when the power grid is abnormal or even has a power outage. Green energy storage can be achieved by connecting Kaihon1000 to a portable solar panel.

Smart Application is realised through TriTerra mobile App, users can remotely connect to Kaihon1000s via Bluetooth or internet to monitor product operation, switch on/off independent power sockets, schedule plans for power supply of individual socket or energy charging for cheaper electrical bill, show live and historical data of green energy collection and electricity consumption. The comprehensive battery management system maintains the operational safety of the product 24/7; in case of abnormal conditions, the product system will alarm the user's mobile phone.



啟航1000 智能電源

啟航1000智能電源主要應用在三個層面 — 1) 戶外用電、2) 綠能減碳、3) 緊急供電。

啟航1000內存1000Wh電池容量，特定輸出為1250W，共有7個供電端口支持不同電器的用電需求（如冰箱、煮食爐具、電動工具、冷氣機等）。啟航1000著重高質設計、創新技術、智能應用。

高質設計：啟航1000採用原創外形設計，配合鮮明色調以營造年輕亮麗的品牌特質。此外，用戶可輕易通過產品上的輕觸式屏幕控制系統的運作。

創新技術：效能高達97%的LLC諧振逆變技術，實現產品IP55真正的防塵防水安全應用，及產品體積最佳化。啟航1000的各個供電端口皆可獨立開關並可制定開關設定，以達至智能家居應用需要。產品內置的UPS「不斷電功能」於電網異常甚至停電的狀況下，仍能持續供電給重要的設備。啟航1000配搭便携式太陽能板以實現綠色儲能。

智能應用：手機App透過藍牙或網絡進行產品運作監控、獨立供電端口開關控制、制定定時供電或充電計劃、展示綠色能源效益和用電資訊。全面的電池管理系統能24/7維護產品的運作安全;如遇異常狀況，產品系統將發送警報至用戶手機。

Comments from Judging Panel

The solution offers a portable charging solution and can be used in many scenarios. It is a functional and environmentally friendly solution for travellers, with the potential for a scalable global market. Its hardware, including the DC to AC converters, bring innovation to the industry and can be widely adopted by the community. Its solar charging capability can also save electricity costs and provide flexibility in remote areas.

評審委員會評語

方案提供便攜式充電方法，可在不同環境中使用。對於旅客來說是一種實用且環保的解決方案，更具有擴大至全球市場的潛力。為行業帶來創新，並可被社區廣泛採用。方案的硬件，包括直流到交流電轉換器，其太陽能充電能力還可以節省電費，並為偏遠地區提供用電的靈活性。

Smart Mobility (Smart Tourism) Silver Award

智慧出行 (智慧旅遊) 銀獎

Electrical and Mechanical
Services Department (EMSD)
機電工程署

www.emsd.gov.hk

Location Tracking System for Hikers at Remote Areas

Since 2019, the Electrical and Mechanical Services Department (EMSD) has been researching the use of Long Range (LoRa) wireless technology to establish an Internet of Things (IoT) network specifically for Government use, namely "Government-wide IoT Network". In 2021, EMSD designed a trial system and hardware devices that make use of the GWIN to provide location tracking and SOS functions in remote areas. This system combines LoRa wireless technology and satellite positioning technology to achieve location tracking and low-data rate transmission over long distances.

In the same year, EMSD also developed the "GWIN-on-drone" which provides a mobile LoRa network system by a drone carrying a lightweight LoRa gateway of low power consumption.

In 2022, the EMSD is going to improve the performance of the hardware devices so that they can simultaneously use the GWIN and the mobile network via connection with a smartphone using Bluetooth, to transmit location data and SOS messages to the back-end server, and to further expand the service coverage of the system. EMSD will continue to enhance the design so that the hardware device would be able to transmit SOS message using satellite, hence providing other means of communication and further enhancing the safety of various outdoor activities on sea, land and air.



偏遠地區遠足人士的定位追蹤系統

機電工程署自2019年起研究利用「遠程」無線技術建立一個政府專屬的物聯網網絡-「政府物聯通」，並於2021年設計一套系統及裝置，試驗在偏遠地區利用政府物聯通提供定位和求救功能。此系統結合「遠程」無線技術及衛星定位以支持接近實時的定位追蹤及長距離低量數據傳輸。

同年，機電工程署研發一款「政府物聯通無人機」，利用無人機搭載輕便和低功耗的「遠程」基站，以建立一個流動物聯網系統。

2022年，機電工程署進一步改良裝置，使其能夠同時利用政府物聯通及透過藍牙連接智能電話的流動網絡以傳輸定位數據及求救訊息至系統後台，以提升系統的覆蓋範圍。未來，機電工程署會繼續完善設計，包括利用衛星傳輸求救訊息，以提供額外的傳輸方式，以提升各類海、陸、空戶外活動的安全性。



Comments from Judging Panel

Hiker safety is a crucial concern, the solution implemented upgrades and the use of technology to improve tracking and rescue systems which could offer better protection to hikers and ensure their safety during outdoor activities. The solution has a good potential for global application and could benefit a wider community.

評審委員會評語

行山人士的安全應是最關注的問題，該升級版解決方案利用科技令人改進了追蹤和救援系統，可以為行山人士提供更好的保護，確保他們在戶外活動時的安全。該解決方案具有良好的全球應用潛力，可以使廣泛的社區受益。

Smart Mobility (Smart Tourism) Bronze Award 智慧出行 (智慧旅遊) 銅獎

FansWave Limited
社群網絡有限公司

www.fanswifi.com

FansWiFi - Social WiFi Marketing Platform

FansWiFi is an innovative social WiFi marketing solution that connects businesses with their customers, focusing on creating seamless connectivity experiences that drive customer engagement, loyalty, and growth. The system seamlessly integrates WiFi access with targeted marketing campaigns, enabling businesses to effortlessly interact with their customers.

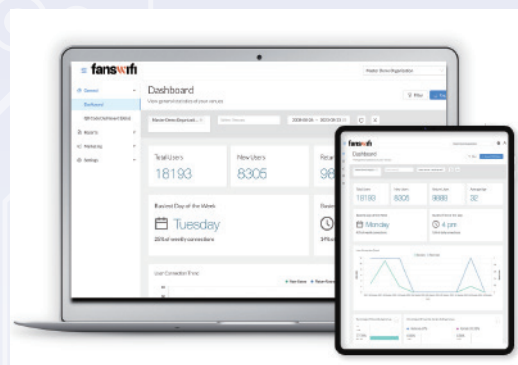
By leveraging the power of FansWiFi, businesses gain valuable insights into customer behavior, preferences, and demographics, allowing them to effectively tailor their marketing efforts. FansWiFi empowers businesses to create customised experiences for their customers without resorting to superlative claims. The system provides businesses with the necessary tools to deliver tailored messages, conduct surveys, and offer exclusive promotions. By prioritising meaningful interactions and avoiding sales talk, businesses can foster long-term customer loyalty and build brand recognition.

The FansWiFi Social WiFi Marketing Solution emphasises clear and fluent communication. Its user-friendly interface ensures businesses can easily navigate and utilise the system to its full potential.



Comments from Judging Panel

The platform offers a good proposition for both consumers and businesses, serving as a tech-based tourist guide. It is easily accessible in overseas markets and can assist SMEs in branding and marketing. The lower entrance fee is beneficial for SMEs. Additionally, WIFI usage can be extensively utilised.



FansWiFi - 社群網絡營銷平台

FansWiFi提供創新的社交WiFi營銷解決方案，將企業與客戶緊密連結，打造無縫連接體驗，提升客戶參與度、忠誠度和增加客群。該解決方案將WiFi網絡與定向營銷活動完美結合，讓企業與客戶互動更加便捷。FansWiFi擁有強大的功能，助企業瞭解客戶偏好和人口統計數據，追蹤流量以及評估營銷活動的效果，從而有效地制定個人化的營銷策略。

FansWiFi提供了定制化的體驗，除了分析能力外，還讓企業創建自定起始頁面，用於展示品牌信息、促銷活動和調查問卷等。這不僅增強品牌可見性，還提供了一個收集客戶回饋的途徑。此外，FansWiFi社交WiFi營銷解決方案確保符合各種數據隱私和安全規定，為客戶提供安全可靠的WiFi體驗。

FansWiFi社交WiFi營銷解決方案注重清晰流暢的溝通。他們提供易用的界面，讓企業能夠輕鬆操作並充分發揮解決方案的功能。



評審委員會評語

平台為消費者和企業提供了一個以科技為本的優質旅遊指南。方案能打入海外市場，助中小企業進行品牌推廣與營銷。低廉的費用有利中小企業應用。同時更廣泛推動WiFi應用。

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

FREED Group Limited
自由緯度科技有限公司

www.freedgrouptech.com

HARMONY Corporate Service Solution (HARMONY CSS)

HARMONY Corporate Service Solution is a SaaS to transform and redefine corporate service experience aligning personalised corporate travel, leisure travel and employee marketplace powered by FREED's proprietary Multi-Merchant, Multi-Platform capability and Smart Recommendation Engine. This innovative solution delivers substantial business benefits to travel companies, enterprise and MICE/events ("Companies"), enabling them to modernise service offerings and streamline operations.

1. Industry's First Multi-Merchant, Multi-Platform Capability: creates an ecosystem where sellers and platforms can better utilise resources in different vertical to generate incremental revenue by offering data-driven supply chain management solution.
2. Digital Transformation: empowers companies to stay ahead in the marketplace, achieve growth through single cloud-based platform that accelerates innovation, enhances operational efficiency, and delivers a new generation of traveller experiences.
3. Automation and Scalability: consolidates, streamlines and automates corporate travel management process into a single, integrated online workflow through scalable system configuration and frees up companies and their employees to focus on priorities.
4. Datafication and Smart Recommendation: by consolidating business travel, B-leisure travel, and e-Marketplace for corporate staff welfare programmes into an omnichannel, generates unified user behaviour data to offer product recommendations and optimise value for travellers. Companies optimise internal resources via insights for budget and staff welfare programmes enhancement.



Comments from Judging Panel

The solution focuses on staff loyalty to attract enterprises to their platform, supporting both customers and staff welfare. It aids SMEs in marketing and can analyse traveller data to drive engagements.

HARMONY Corporate Service Solution (HARMONY CSS)

HARMONY Corporate Service Solution ("HARMONY CSS") 是一站式的企業SaaS服務平台，實現企業數字化，優化成本控制，提升業務效率，增加員工忠誠度，並助企業拓展業務。該創新解決方案為企業帶來實質的商業利益，幫助企業贏得先機。

1. 行業首創「多商家多渠道」生態；為企業提供數據為本的供應鏈管理方案，優化資源運用，有助拓寬企業銷售渠道增加收益。
2. 以單一雲(SaaS)平台促使企業加速創新、提高營運效率，並提供優異的旅客體驗，為企業用戶提供卓越的價值和服務
3. 簡化商務旅遊預訂及管理流程，整合成一站式簡易平台，免除員工繁複工序，讓他們專注優先工作
4. 一站式平台整合商務旅遊管理、商務休閒旅遊、員工福利計劃和電商市場，以統一的消費行為數據，向用戶提供適當服務內容和產品，為旅客創優增值同時實現企業成本效益以及優化員工福利。

評審委員會評語

方案專注於員工忠誠度，以吸引企業使用其平台，並支援客戶和員工福利。它可以幫助中小企業進行營銷，並可以分析旅客數據以提高參與度。

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

Lik On Technology Limited
力安科技有限公司

www.likon.com.hk

VR Life Never Stops

"VR Life Never Stops" is an innovative platform that digitises spaces in 3D, offering transformative possibilities for the tourism sector. Its main features include a wayfinding feature in 3D models and virtual tours, a unique technology in the market that doesn't rely on iBeacon or WIFI. This technology offers user-friendly navigation like physical signage in museums or tourist sites, guiding users through the optimal path and preventing them from missing key attractions. Furthermore, it enhances accessibility for those with mobility issues or disabilities, providing a straightforward path to navigate and experience a site without hindrance.

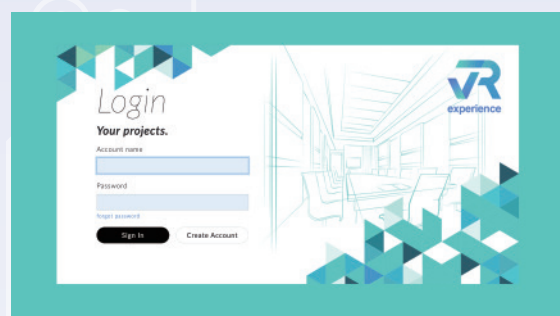
Another key feature is the "synchronised move", where a tutor's monitor controls multiple student monitors. This can be leveraged in training settings for structured learning, allowing a teacher to guide students sequentially through specific parts of the 3D space. In the tourism industry, it enables real-time guided virtual tours of tourist attractions led by tour operators or guides, ensuring visitors receive expert insights and don't overlook important highlights.

The platform operates on a "Platform as a Service" model, broadening its application scope to cross-regional and cross-cultural international level. It caters to clients in 52 countries, spanning a diverse range of sectors including shopping malls, restaurants, residential properties, retail stores, and museums.



Comments from Judging Panel

The solution is capable of a 3D Way Finding (Matterport), offering an innovative, easy-to-implement VR solution for wayfinding, we see market potential as it has low adoption cost and can enhance user experience.



VR生活停不了

「VR生活停不了」是一個創新的平台，將空間以3D方式數位化，為旅遊業帶來變革性的可能性。其主要功能包括在3D模型和虛擬導覽中的導航功能，這技術是不需要依賴iBeacon或WIFI，提供了如博物館指示牌般的友善導航，引導用戶走最佳路徑，防止他們錯過關鍵景點。此外，它讓行動不便人士能夠無礙地導覽和體驗景點。

另一功能是 "同步移動"，導師的電腦顯示器能遙控多個學生的電腦顯示器，提供虛擬實景教學。若應用在旅遊業，它使導遊實時引導旅遊景點的虛擬導覽，確保遊客獲得景點的資訊及專業建議。

平台運作於「平台即服務」模式，其應用十分容易並可以跨地區和跨文化使用。它服務52個國家的客戶，涵蓋多元化行業，包括購物中心，餐廳，住宅物業，零售商店和博物館。



評審委員會評語

方案支援 3D 尋路 (Matterport) 技術，為尋路提供了一種創新且易於實施的 VR 解決方案，具有市場發展潛力，更可助企業以較低的成本採用，增強用戶體驗。

Smart Mobility (Smart Logistics) Gold Award

智慧出行 (智慧物流) 金獎

**Airport Authority Hong Kong /
Accenture Company Limited**
機場管理局 / 埃森哲有限公司

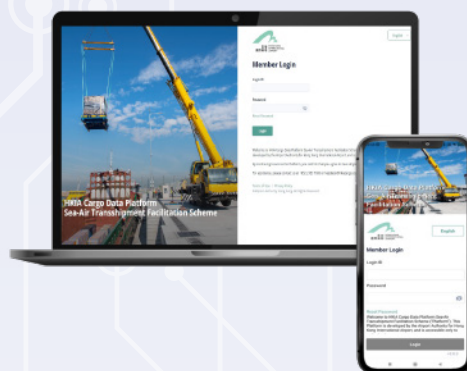
www.hongkongairport.com / www.accenture.com

HKIA Cargo GBA Sea-air Transshipment Facilitation Application

Launched in early 2022, HKIA Cargo GBA Sea-air Transshipment Facilitation Application is a new module of HKIA Cargo Data Platform. It is the first mobility solution that covers the journey of Greater Bay Area cargo transiting under Hong Kong International Airport (HKIA)'s new sea-air intermodal transshipment pilot operation. Airport Authority Hong Kong and its technology partner Accenture has tailored made this critical solution to fulfil the cargo monitoring regime of Hong Kong Customs' Sea-air Transshipment Facilitation Scheme.

Leveraging smart infrastructure empowered by blockchain and emerging mobility technologies, users can use an integrated portal to track and trace vessel journey and schedule, receive incident notifications, access shipment information, as well as viewing CCTV footage of cargo conditions throughout the journey in a timely manner. Upon cargo arrival at HKIA, information about the secured transport seal would be validated automatically through the app's scanning capabilities.

This mobility solution not only fulfils the needs of the facilitation scheme but also provides value-adding features and functions to streamline communication. The enhanced data quality by the use of single source of truth allows more efficient strategic resources planning, risk profiling and decision making. It also lays the foundation for future growth and collaboration opportunities.

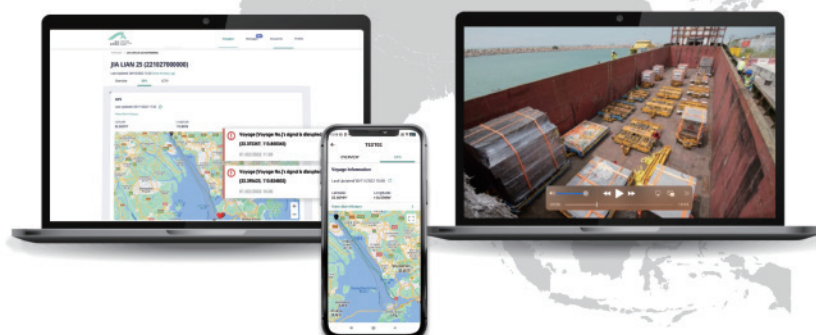


香港國際機場「大灣區海空聯運數據應用系統」

香港國際機場貨運數據平台HKIA Cargo於2022年初推出新單元「大灣區海空聯運數據應用系統」，是首個涵蓋粵港澳大灣區貨物運輸過程的流動平台。機場管理局聯同其技術夥伴埃森哲為香港海關海空聯運便利計劃制訂此系統，以支援香港國際機場新推出的大灣區海空多式聯運先導計劃，滿足貨物監管制度的要求。

系統利用區塊鏈及新興流動技術建構智能基礎設施，用戶可透過單一綜合平台適時追蹤船舶航程、船期表、事故通知、貨物資訊及閉路電視錄影片段，以得悉貨物運輸狀況。當貨物抵達香港國際機場碼頭，可以透過程式掃描驗證其運輸保安封條號碼。

這平台不僅滿足監管要求，更透過各功能提升溝通效率。平台提供的單一信息源使用戶可以更及時精確地規劃資源、預測風險、分析和決策。這系統亦為未來香港航空貨運數碼化發展及合作奠定基礎。



**Single View of
Track and Trace
AIS Vessel Tracking**

**Security
CCTV Footage**

Comments from Judging Panel

The solution is a large-scale deployment of Smart Logistics and shipment in Hong Kong. It is a single portal to facilitate the transshipment process which is a significant example of an efficient and effective logistics solution, facilitated by blockchain that enables multi-model connectivity in GBA transshipment.

評審委員會評語

方案是一個在香港運行的大規模智慧物流和運輸。它是一個促進物流轉運過程的「單一平台」，由區塊鏈推動，實現大灣區轉運中的多模式連接，是有效地解決物流問題的重要例子。

Smart Mobility (Smart Logistics) Silver Award

智慧出行 (智慧物流) 銀獎

Geek+ / Hongkong Post
極智嘉 / 香港郵政

www.geekplus.com / www.hongkongpost.hk

Robotic Packet Sorting System

Hongkong Post and Geek+ have teamed up to implement its first robotic packet sorting system at the Central Mail Centre. Combining Geek+'s advanced sorting and moving solutions with the development blueprint of the Hongkong Post project team, the new technology promises to transform and streamline the packet sorting process in order to improve the efficiency for mail handling.

The smart system has automated the previous manual sorting process. Once the staff places the packets individually on the conveyor belt, the system automatically scans the barcodes, measures their weight and dimensions, and records the information in the computer system. Subsequently, the system sorts the packets based on their delivery points, then sorting robots will transfer them to respective mail bags of different delivery points. Once the mail bag is full, the moving robot will automatically send the mail bag to the workstation for bag sealing, improving sorting efficiency and accuracy to guarantee on-time delivery.

Geek+'s proprietary sorting and moving robots enabled Hongkong Post to simplify the overall workflow and increased operational efficiency by 20%, replacing the traditional manual process which is more labour intensive. The sorting capacity of the robotic system can reach up to 1,000 packets per hour. This collaboration marks a new era of mail sorting with robotics technologies. Hongkong Post is leveraging robotics technologies to meet the booming of eCommerce opportunities.



機械人郵包分揀系統

香港郵政在中央郵件中心採用的全新機械人郵包分揀系統，透過應用香港郵政項目專隊的發展藍圖和兩種極智嘉(Geek+)自主研發的機械人方案，利用創新科技簡化分揀流程，提升工作效率。

系統改變過去人手分揀的作業模式，職員只需把郵包逐一放在輸送帶上，系統便會自動掃描郵包上的條碼、度重量和尺寸，並記錄在電腦系統內。智能系統會把郵包按派遞點分類，再由分揀機械人運送到所屬卸貨架。當郵袋裝滿後，搬運機械人會自動把郵包運送到相應工作站，讓職員封袋再安排派遞。

由機械人代勞可減少體力勞動的工作，更有助提升工作效率達兩成，新系統每小時可處理達1000個包裹。這次引入機械人技術，標誌著香港郵政推動郵政藉創新機械人技術來滿足日益增長的電子商貿服務需求。



Comments from Judging Panel

The logistics automation solution has significantly enhanced efficiency in complex scenarios and sorting processes with large deployments. The unique dual robot system has improved operation efficiency (mail sorting) and the use of smart algorithms, benefiting and upgrading users' service levels.

評審委員會評語

物流自動化方案在複雜場景和大規模部署的分類流程中顯著提升了效率。獨特的雙機器人系統提高了作業效率（郵件分類），智慧演算法的運用，惠及並提升了使用者的服務水準。

Smart Mobility (Smart Logistics) Bronze Award

智慧出行 (智慧物流) 銅獎

**GP Electronics (HK) Limited /
BPS Global Management Limited**
金山電子 (香港) 有限公司 / 威裕環球管理有限公司

www.gp.industries/brands/gp-electronics / www.bps-group.net



The Smart Logistics System in GP Electronics Huizhou Factory

GP Electronics and BPS Global Group work as partners to create leading smart logistics solution for GP Electronics Huizhou factory. In order to realise agile and competitive manufacturing, GP Electronics and BPS Global jointly designed and developed, and BPS Global installed the high efficiency, flexible and high peak throughput smart logistics solution tailored to GP Electronics Huizhou factory's unique multi-storey facilities for an area of approximately 120,000 square feet of the factory in the first phase. Standard building blocks were used and customised to create a unique smart logistics solution for the unique factory requirement.

The system consists of advanced smart logistics equipment, including automatic reciprocating conveyors, spiral conveyors, pallet automated guided vehicles (AGVs), roller AGVs, intelligent material box layered conveyors and high-speed conveyors.

Advanced logistics equipment in the smart factory is integrated and controlled by a centralized Warehouse Control System (WCS), transforming the traditional manual material transport into intelligent logistics between warehouse and factory. The WCS is connected to GP Electronics enterprise resource planning system which is a key contributor for achieving lean production management within the factory.

金山電子惠州工廠智慧物流系統

金山電子與威裕環球集團 (BPS Global) 攜手合作為金山電子惠州工廠創建領先的智慧物流解決方案。為了實現具彈性和具競爭力的製造工序和生產能力，金山電子與威裕環球共同為金山電子惠州多層工廠內第一階段約120,000平方尺的範圍專門設計和開發。並由威裕環球安裝一套高效、柔性度高、高峰值吞吐量的智能物流解決方案。這獨特的智能物流解決方案，使用了標準組件並進行定制，以滿足獨特的工廠要求。

智能物流系統由先進的智能物流設備組成，包括自動往復輸送機、自動螺旋式提升機、潛伏式自動導航車、輥筒式自動導航車、智能料箱分層輸送機及高速輸送線。

智慧工廠內的先進物流設備由中央倉庫控制系統 (WCS) 來進行整合和控制，將倉庫和工廠之間的傳統人工物料轉運變為智慧物流。WCS與金山電子的企業資源管理系統相連，對實現工廠內精益生產管理作出重大貢獻。



Comments from Judging Panel

The solution addresses the challenges of varying packaging sizes and dispersion issues within the factory. The robotic development and application across warehouse floors with end-to-end automated flow is well adopted with significant benefits. Furthermore, the solution enables the sharing of paths between staff members and AGVs, facilitating its replication for other applications and unlocking greater, more comprehensive value.

評審委員會評語

方案解決了工廠中的不同包裝尺寸差異和分散問題。跨倉庫樓層的機器人開發以及應用、端到端自動化流程的應用發揮了效益，同時允許工作人員和AGV共享路徑操作，讓方案可複製至其他應用上，實現更大、更全面的價值。

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

FreightAmigo Services Limited
友貨運控股有限公司

www.freightamigo.com

FreightAmigo – Financing, Insurance, Logistics in One Platform

FreightAmigo is a full-service, one-stop digital supply chain finance platform with 5 transportation modes (Sea, Air, Express, Truck & Rail) that revolutionises logistics for organisations, enterprises, and individuals to transform and redefine the way they experience logistics while fostering a unique TradeTech ecosystem. Recognized as a “first mover” and industry pioneer in Asia-Pacific, the platform integrates AI, big data, FreightTech, FinTech, InsurTech, GreenTech, and Robotics to streamline logistics, information, and cash flow, enhancing supply chain visibility through data integration.

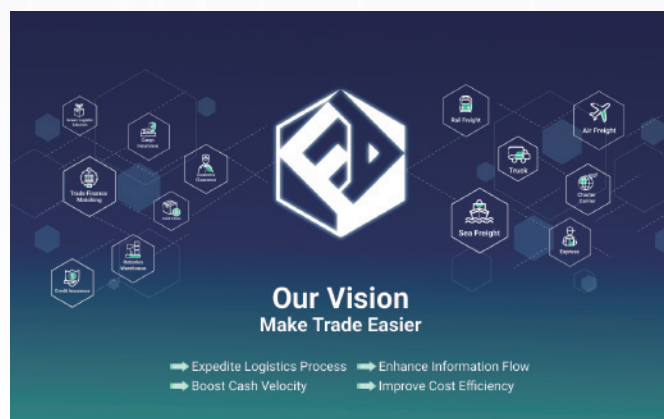
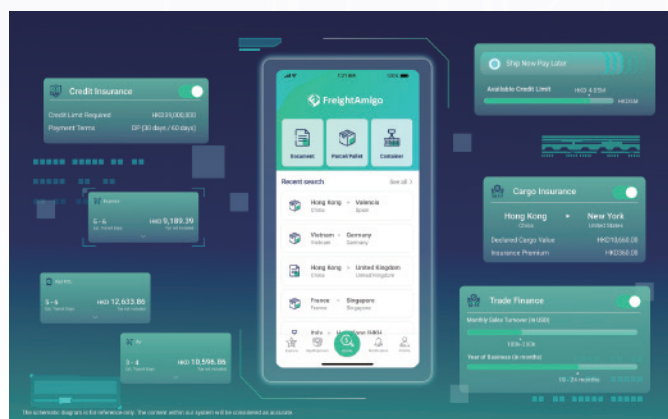
Operating in over 250 countries & regions, the platform serves 48,000+ users worldwide. By utilising real-time & verified data from FreightAmigo, businesses and SMEs can improve their working capital and reduce international trade risks. Headquartered in Hong Kong, the company has regional offices in Beijing, Shenzhen, and Singapore, with plans to further support international business and strengthen Hong Kong’s role as a global digital logistics and trade hub.



FreightAmigo — 融資，保險，物流一站式平台

FreightAmigo為提供全方位服務的一站式國際供應鏈金融平台，提供5種貨運模式（海運、空運、快遞、貨車運輸和鐵路運輸），致力革新並重新定義個人及企業客戶的數碼物流體驗，同時促進貿易科技（TradeTech）生態系統的發展，為亞太地區物流行業的數碼先驅。平台糅合人工智能、大數據、物流科技（FreightTech）、金融科技（FinTech）、保險科技（InsurTech）、綠色物流科技（GreenTech），以及智能機械人倉庫（Robotics Warehouse），令供應鏈可視性大大提高，通過加快物流、資訊流和現金流，從而提高客戶的生產力。

通過利用平台的實時及驗證數據，企業和中小企可以提高其營運資本，同時減少貿易風險。平台在全球250多個國家和地區營運，為全球超過48,000多個用戶提供服務。總部位於香港，公司在北京、深圳和新加坡設有地區辦事處，進一步支持國際業務，深化香港作為全球數碼化物流和貿易樞紐。



Comments from Judging Panel

The platform offers a comprehensive end-to-end freight service, connecting customers with key partners and ensuring seamless follow-up work. It promotes the technological advancement of SMEs and offers an integrated one-stop service for shippers and consignors. It further enhances AI optimisation through the utilisation of Fintech and logistics technology.

評審委員會評語

方案平台提供全面的端到端貨運服務，將客戶與主要合作夥伴聯繫起來並確保跟進工作順利。平台不但鼓勵中小企業提升技術應用，為發貨人和托運人提供一站式服務，並利用金融科技和物流技術優化人工智能。

Smart Mobility (Smart Transport) Gold Award

智慧出行 (智慧交通) 金獎

Maphive Technology Limited /
Spatial Data Office, Development Bureau /
Energising Kowloon East Office, Development Bureau
蜂圖科技有限公司 / 空間數據辦事處 / 起動九龍東辦事處

www.mapxus.com / www.csdi.gov.hk / www.ekeo.gov.hk

Smart Navigation Tool for The Visually Impaired/ People In Need

The project was developed by Maphive Technology Limited (Mapxus) in collaboration with the Spatial Data Office and the Energising Kowloon East Office, both under the Development Bureau. Supported by MTR Corporation, iconic malls, and NGOs, the smart navigation feature is now available.

This innovative smart navigation tool aims to enhance the independence and mobility of visually impaired users and those requiring assistance. Implemented on Maphive's indoor map, it offers a seamless indoor and outdoor barrier-free navigation experience, allowing users to effortlessly navigate complex environments and engage with their surroundings.

In the process of product design and technical research, interviews were conducted with visually impaired users to understand their needs and pain points. Based on their feedback, practical and user-friendly features were developed. Through on-site trials, user feedback was actively collected and features were continuously optimised to enhance the overall experience.

Earlier this year, a new feature, "Walking Assistant", was launched to provide indoor and outdoor uninterrupted voice guidance for the visually impaired or people in need, which now covers the inner area of MTR stations and landmark shopping malls in Kowloon East.



Comments from Judging Panel

The use of Common Spatial Data Infrastructure (CSDI) data and indoor navigation has been successfully implemented to improve the quality of life for visually impaired individuals. The solution aims to make society more inclusive and improve the quality of life for the visually impaired. It can be widely adopted and works with NGOs to provide comprehensive environmental information to end users.



為視障人士/有需要人士設計的智慧出行 導航工具

這個計劃由蜂圖科技有限公司、發展局的空間數據辦公室和起動九龍東辦公室合作開發。在港鐵公司、標誌性商場和非政府組織的支持下，該智慧出行導航功能現已推出。

這款創新的智慧導航工具旨在提高視障用戶和需要幫助的用戶的獨立性和移動能力。它在蜂圖的室內地圖上實施，提供無縫的室內和室外無障礙導航體驗，使用戶能夠輕鬆瀏覽複雜的環境並與周圍環境互動。

產品設計和技術研究過程中，訪問了視障使用者，以了解他們的需求和痛點。根據他們的回饋，開發了實用且便於使用的功能。透過現場試用，積極收集使用者回饋，並持續優化功能，提升整體體驗。

今年年初更推出了全新功能「暢行助手」，為視障或有需要人士提供室內和室外無間斷語音導航，目前覆蓋九龍東的港鐵站內和地標式購物商場。



評審委員會評語

通用空間數據共享平台（CSDI）數據和室內導航的成功實施，可改善視障人士的生活品質。方案旨在提升社會包容性並提高視障人士的生活品質。它具有很大的應用範圍，並與非政府組織合作，為最終用戶提供全面的環境訊息。

Smart Mobility (Smart Transport) Silver Award

智慧出行 (智慧交通) 銀獎

The Kowloon Motor Bus Company (1933) Limited
九龍巴士 (一九三三) 有限公司

www.kmb.hk



Digitally connected bus service via all-in-one, App1933

The KMB App1933 has an impressive user base with over 6 million downloads. This smart, convenient and all-in-one travel application utilises real-time location tracking to provide users with information on nearby bus routes, estimated arrival time, as well as other transport. Users can easily find their desired route by using the search function, allowing them to access route information, including the shortest journey or the lowest fare. An artificial intelligence Chatbot channel, bot1933, is also available to provide round-the-clock instant feedback.

Leveraging big data analysis, the application incorporates passenger flow patterns, district-specific bus service requirements, and real-time data usage to enable KMB to make necessary adjustments to bus services. By utilising 5G and innovative technology, KMB provides the entire bus passenger capacity on App1933 by collecting and analysing the data from the cameras on buses.

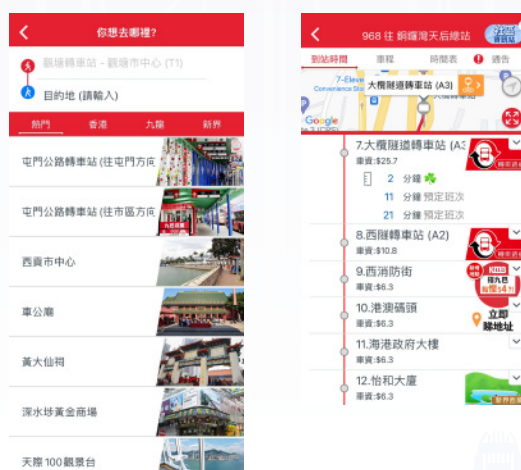
Passengers, under the KMB membership programme, can accumulate member points when using bus services. These points can then be redeemed for gifts or "eCoins," which can be used for bus fares. As an effective communication channel, App1933 plays a vital role in business collaborations and charity promotion.

App1933: 一站式數碼連接巴士服務

九巴應用程式App1933覆蓋率高，下載率有逾六百萬。作為智能、便捷及一站式的出行程式，採用實時位置定點，可顯示附近巴士路線及到站時間外，亦可顯示其他交通工具的到站時間。用家更可以利用點對點搜尋方式，找出所需路線、最短車程或最少車資。程式也設有人工智能聊天機械人「bot1933」，全天候回覆乘客查詢。

程式利用大數據分析，包括乘客流動模式、各區巴士服務的需要及程式即時的使用量，讓九巴能作出相應巴士服務調動。透過5G及創新科技，置於車內的鏡頭可分析乘客人數，實時將全車車廂載客量以圖示顯示於程式上。

透過會員計劃，乘客乘搭巴士可賺取積分，累計積分可換取禮品或兌換「eCoin」用於乘車。同時，App1933作為實用平台及有效的溝通渠道，能促進商業合作及慈善推廣。



Comments from Judging Panel

The solution offers a user-friendly and beneficial solution for public transportation. It provides useful information for bus travellers and facilitates users' journeys. It also could benefit a large number of citizens by providing a convenient and efficient public transportation option. The solution has great market potential while embracing sustainability.

評審委員會評語

應用程式為公共交通提供了易於使用且有效益的解決方案。它為巴士乘客提供有用的訊息，使用戶旅程更便利。它還可以透過提供便利高效的公共交通選擇使大量公民受益。此方案具有巨大的市場潛力，並可促進可持續發展。

Smart Mobility (Smart Transport) Bronze Award

智慧出行 (智慧交通) 銅獎

Hong Kong Observatory
香港天文台

www.hko.gov.hk



Estimation of Standing Water Conditions on Airport Runways

The Hong Kong Observatory has developed a novel algorithm specifically designed for the Hong Kong International Airport to estimate standing water conditions on the runways. This is to ensure full compliance with the International Civil Aviation Organization's requirements for real-time reporting of runway surface conditions from November 2021 onwards.

The system combines real-time rainfall data measured from the existing network of in-situ present weather sensors along the runways as well as quantitative precipitation forecast based on radar reflectivity. Supplemented with rainfall nowcasts on intensity and duration, the system automatically monitors the runways 24 hours a day and provides real-time estimation of the standing water conditions to the Integrated Airport Centre via a tailor-made all-in-one platform, simplifying its decision-making process.

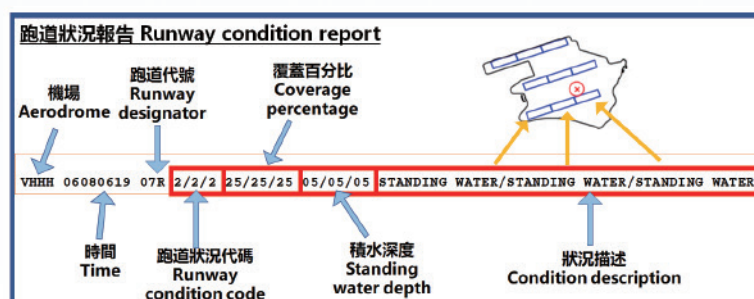
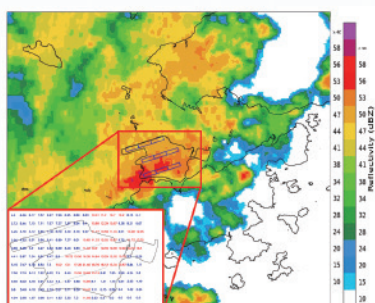
The system facilitates an improved flight crew assessment of take-off and landing performance with an aim to mitigate the risk of runway excursions by aircraft and safeguard aviation safety. Additionally, it helps the air traffic controllers maximise flight movement capacity by optimising flight separation according to the real-time runway conditions. The Observatory has published the design ideas and shared the unique pioneering work in the World Meteorological Organization Technical Conference 2022 on Meteorological and Environmental Instruments and Methods of Observation for the common good.

機場跑道積水情況估算

香港天文台專門為香港國際機場創造出嶄新的演算法，用以估算跑道上的積水情況，使機場能全面遵守國際民航組織從2021年11月起對跑道表面狀況實時報告的要求。

系統結合跑道旁天氣現象傳感器的實時降雨數據和衍算自雷達反射率的定量降雨預報，再配合降雨強度和持續時間的臨近預報，全自動24小時監察及將跑道的即時積水估算經這個度身訂造的一站式平台，提供給機場中央控制中心，以簡化其決策過程。

該系統有助飛行員評估跑道起降性能，力求降低飛機滑出跑道的風險以鞏固航空安全。根據實時跑道狀況，航空交通管制員能優化航機的飛行間距，提升飛機起降量。天文台於2022年世界氣象組織氣象和環境儀器與觀測方法技術大會上發表設計理念及分享是項獨特的開創性工作，造福各界。



Comments from Judging Panel

The Observatory is striving for international recognition. The solution enhances aviation safety and has the potential for international deployment. It is a valuable solution that utilises technology and modelling to improve safety. Its implementation is expected to further enhance safety issues.

評審委員會評語

天文台正努力爭取國際認可，方案提高了航空安全性並具國際應用的潛力。當中利用了科技和建模來提高安全性，實施預計將進一步加強安全問題，是一個有價值的解決方案。

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

HOU Wai Man
侯偉民

routejam.com

Routejam

"Routejam" utilises data analysis techniques to interpret traffic news and locations, enabling the system to calculate affected routes within seconds. The system can deliver real-time notifications based on users' favorited routes, even when the application is not actively in use. This allows users to proactively address unexpected situations before their journey. By avoiding congested routes, users can reduce travel delays, arrive at their destinations on time, and save time in their commute. Additionally, Routejam leverages government's open data from speed detectors to analyse the conditions of various road sections, providing the latest route information faster than traffic news. By integrating real-time estimated arrival times of public transportation, users can easily decide on the most optimal route with just a glance.

With the latest support of OpenAI's generative artificial intelligence, Routejam offers voice-based navigation features, including point-to-point route search, nearby route queries, and traffic condition inquiries. Users only need to speak to obtain the desired traffic information.



路暢

「Routejam 路暢」利用數據分析技術解讀交通新聞訊息及位置，能夠數秒內推算出受影響路線。系統可以在用戶沒有打開程式的情況下，根據用戶收藏的路線進行第一時間的訊息推送，讓用戶出行前有更多時間提前應對突發情況，幫助避開塞車路線，避免行程延誤，準時到達目的地，減少在交通上所需要的時間。其中更利用政府的開放車速偵測器數據分析各個路段狀況，比交通新聞更快獲得最新路線狀況。結合公共交通工具的實時預計到站時間，能幫助用戶快速地一眼決定最佳路線。

透過最新 OpenAI 提供的生成式人工智能實現語音問路功能，包括點對點路線搜尋，附近路線查詢及交通狀況查詢，讓用戶只需說出，即可獲取需要的交通資訊。



Comments from Judging Panel

A young researcher's effort is recognised for his IT talent and contributions to the community. This real-time solution was developed solely by a developer, providing automatic queries to update traffic information. The solution is real-time with push notifications, and the use of open data and analytics technologies is commendable. It is a great demonstration of his passion and the solution's potential for further exploration.

評審委員會評語

年青人的價值在於他應用IT才能和為社區所作的貢獻而得到認可。此方案由一個人開發，提供自動查詢以更新交通資訊。該解決方案是即時且具有推播通知，結合開放數據和分析技術的使用，值得稱讚。這充份體現了他的努力及方案的進一步發展的潛力。

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

Locolla Limited / Transport Department,
The Government of the HKSAR
樂區採 / 香港特別行政區政府運輸署

www.locolla.com / www.td.gov.hk

Smart Shared Power-assisted Pedal Cycle Platform

LocoBike is a bike-sharing platform in Hong Kong offering a low-carbon transportation option to the community since 2017. Currently, it has amassed over 500,000 registered users, and its services span across most of Hong Kong's cycle tracks. In pursuit of advancing the development of Electric Mobility Devices (EMDs), LocoBike joined hands with the Transport Department to launch the "Trial of Shared Electric Mobility Devices" Program in early 2023. The program's objective is to assist the government in formulating future regulatory directions related to shared mobility, by effectively gaining operational experience and travel data. This initiative ultimately aims to provide citizens with an additional low-carbon commuting option, thus reducing the use of mechanised transport.

As part of this program, LocoBike has successfully developed power-assisted pedal cycles (PAPCs) that comply with the Transport Department's standards. PAPCs can reach speeds of up to 25 kilometers per hour and are equipped with geo-fencing technology. If participants ride outside the trial area or intend to park in illegal zones, PAPCs will issue voice prompts and cut off the power, making it difficult to move away from the designated areas, for effective management of the PAPCs.



智能共享電動輔助單車平台

LocoBike為香港共享單車服務供應商，自2017年起致力推廣「城市單車 綠色出行」理念到社區，現時已擁有超過50萬註冊用戶，服務遍佈大部份香港單車徑。為推動電動可移動工具發展，LocoBike與運輸署於2023年初攜手推出「共享電動可移動工具試驗計劃」，目的是透過計劃有效收集營運上的經驗及行駛數據，幫助政府制定日後共享相關的規管方向，為市民提供多一種低碳交通選擇，從而減少使用機動交通工具。

LocoBike就本次計劃成功研發出合乎運輸署標準的共享電動輔助單車，時速可達25公里內，並帶有電子圍欄技術，可精準定位單車位置。如使用者駛出試行範圍或嘗試停泊於非指定停泊位，單車將發出語音提示及截斷電力，令輔助單車難以遠離特定區域，以便作出管理。



Comments from Judging Panel

The solution serves as a good demonstration of environmentally friendly solution, which involved both hardware and software development, enabling automated monitoring based through AI analytics on user behaviour data. It also addresses safety concerns by utilising advanced geo-fence technology with high navigation accuracy.

評審委員會評語

方案為一個很好的環保應用案例，並涉及硬體和軟體開發，更根據用戶行為數據進行人工智能分析實現自動監控。先進的地理圍欄技術更可實現高導航精確度去解決安全問題。

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, facilitate commerce connectivity and enable sustainable value chain 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, paving the way for "Smarter Business, Better Life".

As a non-profit organization, GS1 develops and drives global adoption of supply chain standards. Headquartered in Brussels, Belgium, GS1 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 HK)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、促進線上線下貿易及推動可持續價值鏈。

GS1 HK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。

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Enquiries 查詢

Tel 電話: 2861 2819
Fax 傳真: 2861 2423

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