



HONG KONG  
ICT AWARDS  
2021 香港資訊及  
通訊科技獎

# Smart Mobility Award 智慧出行獎



Leading  
Organiser  
籌辦機構



Hong Kong

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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 2021. 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.

### Objective 目的

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

Mobility and transport are essential if a city is to function properly. There cannot be a smart city without Smart Mobility. A smart city should be connected and citizen-centric, which is accessible to visitors and residents, travelling and moving goods across the city trouble-free, bringing citizens and visitors more convenience, better quality of lives, more sustainable power usage, higher level of safety and city competitiveness.

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。

2021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」。

#### 1. 鼓勵開發嶄新智能應用，同建香港智慧城市藍圖

完善交通系統和流動性是任何現代都會都需具備的條件，因此智慧城市不能缺少智慧出行(Smart Mobility)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。



## HONG KONG ICT AWARDS 2021 香港資訊及 通訊科技獎

The objective of the award programme is to encourage more designs and development of applications leveraging the integration of Internet of Things (IoT), big data and analytics, as well as mobile applications, which will enhance the flow of people, goods, and tourists; improve citizens' and visitors' experience; and enable smart mobility for a smarter Hong Kong.

### **2. Championing HK as a Hub for IT 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 award competitions.

We hope that through these recognising and nurturing initiatives, it will further stimulate creativity.

### **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 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, which leads to a sustainable ecosystem of technology-driven new business paradigm.

本計劃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、大數據分析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. 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。透過嘉許和培育的措施，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**

**林潔貽女士太平紳士，FCILT**  
**香港貨品編碼協會總裁**



The coronavirus crisis has hit the transport and logistics industry particularly hard. Container and aircraft are stuck, travel has been severely restricted, but one thing is certain: innovations continue to thrive despite the circumstances.

As the leading organiser of the Smart Mobility Award for the fourth consecutive year, GS1 Hong Kong is delighted to see a robust innovation and technology sector in the city, bearing fruits to many inventive fixes to practical issues in people's livelihood and business situation. From improving Hong Kong's long-time parking problem to automating supply chain and travel agency operations, the winning entries are well-placed to transform the ways we live and work. We are also seeing many first-in-Hong Kong applications, with some even have acquired patent or trademark for their original design and sophisticated capabilities. This proves that even in challenge and adversity, it only fuels people to unlock their talents and go beyond the limitations.

The adjudication process this year continued to be challenging amid COVID-19, so on behalf of GS1 Hong Kong, I would like to thank the professional judging panel and the assessment panel for their commitment and efforts in steering the Smart Mobility Award to its fruition. My sincere gratitude also goes to the Office of the Government Chief Information Officer for their guidance and support. We are committed to working closely with the Government and our industry partners, and will remain focused on our "Go Digital • Go Smart" strategy to support business on their digitalization journey, fostering a favourable business environment, attaining "Smarter Business, Better Life".

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.

疫情危機令運輸和物流行業面臨前所未有的打擊：船運及空運滯留延誤，跨境旅遊受到嚴格限制；儘管如此，創新意念仍然在業內不斷迸發、茁壯成長。

作為「智慧出行獎」連續四年的籌辦機構，GS1 Hong Kong 很高興看到香港創科界持續蓬勃發展，為市民生活和營商環境帶來許多實際有用的突破性方案。獲獎方案多元化，從改善香港長期的泊車問題、以至將供應鏈和旅行社營運自動化的系統，都有著徹底改變我們生活和工作方式的潛力。作品中不乏多個「香港首次展示」的方案，更有因原創設計和先進功能而獲得專利或商標的作品，可見港人即使面對艱難和逆境，仍可發揮天賦及所長、突破局限。

疫情持續令本屆評審過程依然充滿挑戰。本人謹代表香港貨品編碼協會衷心感謝專業的評審委員會及審核委員會，他們的投入參與讓項目得以順利進行；同時感謝政府資訊科技總監辦公室的指導和支持，本會將繼續與政府及各業界合作夥伴緊密聯繫，專注以「Go Digital • Go Smart」策略，推動企業數碼轉型、締造有利營商環境，實踐「智能商貿、優質生活」的願景。

最後，本人衷心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，還為智慧城市的社會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 Dr Ted SUEN, MH**  
**Chief Information Officer**  
**MTR Corporation Ltd.**

**孫耀達博士工程師，MH**  
**香港鐵路有限公司**  
**首席資訊主管**



I am honored to be the Chairman of the Final Judging Panel of this year's Smart Mobility Award. The 3 streams of the award - Smart Transport, Smart Logistics and Smart Tourism - are all important elements contributing to the HKSAR's Smart City initiative. Even though the city is still being affected by the outbreak of COVID-19, it cannot stop innovations and technology from thriving. I'm impressed by the participants' enthusiasm and diligence in their pursuit, which bring us fascinating ICT solutions and applications. They are the role model of Hong Kong tenacious spirit, and they are key to driving the local smart city development.

With 4 years of experiences, GS1 Hong Kong continues to deliver high level of professionalism as the lead organiser of Smart Mobility Award. Their arrangements had ensured a very enjoyable and smooth process throughout the contestants' presentations and the whole adjudication process.

I would like to take this opportunity to congratulate this year's award winners and express my sincere gratitude to the leading organiser and members of the judging panel, for contributing the time and effort to make this meaningful Award a great success. I hope you may stay healthy, and continue to harness the power of technology to improve the quality of life and propel the progress of the society.

我很榮幸擔任今屆「智慧出行獎」的評審委員會主席。獎項的三個組別，包括智慧交通、智慧物流及智慧旅遊，均是建設香港作為智慧城市的重要元素。儘管香港仍受著新冠肺炎的影響，但無阻本地創新及科技迸發新猷。對於參賽者不斷追求創新的熱情和幹勁，帶來耳目一新的方案和應用，令我留下深刻印象。他們體現了香港不屈不撓的精神，是推動香港智慧城市發展的巨大動力。

憑藉4年籌辦「智慧出行獎」的經驗，香港貨品編碼協會今年繼續以專業能力和態度，有條不紊地安排及組織評審工作，令整個評審過程得以順利進行。

我謹此祝賀本年度所有得獎公司和參賽者，並衷心感謝籌辦機構和評審的幫忙和支持，令繞有意義的「香港資訊及通訊科技獎」能完滿舉辦。祝願各位身體健康，繼續發揮科技的力量改善市民生活，促進社會發展。

Chairman 主席



Ir Dr Ted SUEN, MH 孫耀達博士工程師, MH  
Chief Information Officer  
MTR Corporation Ltd.  
香港鐵路有限公司  
首席資訊主管

Deputy Chairman 副主席



Ir Susanna SHEN 孫淑貞工程師  
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董事局成員



Ir Charles SO 蘇洪德工程師  
Chairman of Smart Mobility Committee  
Smart City Consortium  
智慧城市聯盟  
智能交通委員會主席

# 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

Yee Fung Technology Limited  
怡豐技術有限公司  
[www.yeefung.com](http://www.yeefung.com)



### Hong Kong Science Park Building 17W/19W Robotic Parking System 香港科技園智動泊智能泊車系統

Located across Buildings 17W and 19W at Hong Kong Science Park, the city's first trialed robotic parking system features a combination of technologies including AI, robotics & sensors, and automatic EV charging. It offers a safer and smarter enhanced car parking experience versus conventional car parks, with significant space savings and minimized lighting and ventilation power consumption.



位於科學園17W和19W大樓的智動泊是本港首個試行的全自動泊車系統，結合人工智能、機械人及傳感器等多項嶄新技術。與傳統停車場相比，智動泊提供更方便的泊車體驗，善用停車場內的泊位空間，減少照明及抽風系統的能源消耗。



The cutting-edge facility lets drivers simply park their cars onto a pallet inside the designated chamber, and then confirm at the kiosk to initiate the parking process with a one-time-passcode. An automatic guided vehicle (AGV) will transport the pallet with the car to a vacant parking space. To retrieve the car, drivers just input the assigned passcode to the kiosk and the car will be transferred by the AGV to the designated chamber for pick up. Drivers can also use the Robotic Parking System App to schedule car retrieval, check parking availability and car status.

This entry is a true showcase of Hong Kong's leading edge smart city innovation and will advance the city's vision for smarter living and smarter mobility.

### Comments from Judging Panel

Car parking is one of the key issues in smart mobility. With the aim to optimize spatial efficiency, this entry is a promising innovative solution to address parking challenges. Integrated with the next generation technology, the system focuses on user experience with booking system to enhance flexibility to meet operational requirements. This is not only a technology application, but also a creative solution to meet business and social needs.

使用智動泊時，駕駛者只需將車輛駛入指定停車艙並停泊在卡板上，然後到停車艙外的操作屏辦理存車手續，取得一次性取車密碼後即可離開。自動導向車(Automatic Guided Vehicle, AGV)便會將其車輛連卡板一併運送到停車場內的空置泊位。取車時，駕駛者只需在操作屏輸入早前取得的一次性密碼，AGV便會移車輛到指定停車艙，讓駕駛者取回車輛。另外，駕駛者亦可透過智動泊手機應用程式預約取車、查看泊位數量及其車輛狀況。

智動泊展現香港邁向智慧城市的創新成果，進一步推動香港實踐智慧生活和智慧出行的願景。

### 評審委員會評語

泊車是香港交通存在已久問題之一。該系統能有效使用空間，解決泊車的創新解決方案。結合新一代科技，該系統亦專注於用戶體驗，利用預訂系統提高靈活性以滿足營運要求。這不僅是一項技術應用，也是滿足商業和社會需求的創新解決方案。

# Smart Mobility (Smart Transport) Silver Award

## 智慧出行 (智慧交通) 銀獎

THOUSAND AND ONE LIMITED

www.datatone.hk



### Datatone

Datatone is a mobile app which makes good use of open data provided by public institutions or private organizations in Hong Kong, bringing convenience to users' daily life.

The app brings open data into widgets, so users can view public transportation ETA (estimated time of arrival) including bus, minibus, light rail and MTR without launching any app but on their phone home screen. It also offers Siri Shortcuts, so users just need to say "Hey Siri return home bus ETA" to know the information without unlocking their phone. With widgets and Siri, the solution brings an incredibly rapid and convenient experience to users.

Not only beneficial to passengers but also drivers, the app provides journey time indicator widget and traffic snapshot widget, so drivers can read the journey time for major roads / tunnels and the traffic condition rapidly.

The app provides widget customization functionality so users can personalise by decorating the home screen with their favourite color / picture.



### Comments from Judging Panel

Making good use of open data and the widget function, Datatone's solution offers user-friendly information that makes life easier for those who rely on public transportation to get around Hong Kong.

As the founders described their solution, "a small assistant in their (users') mobile device.", small things can make a difference in our everyday life. Its compounded effects over time is solid.

Open data opens up great opportunities for the private sector to come up with innovative solutions. Datatone has demonstrated how a small team can create a "small assistant" that plays a part in making our city smarter.

### 數據通

數據通是一個整合香港各類公營及私營機構的開放數據的手機應用程式，幫助香港人每日通勤、能成為日常生活上的小幫手。

程式將開放數據融入手機Widget，用家無須打開程式，便可在電話主畫面看到實時公共交通工具到站預報，當中包括巴士、小巴、港鐵及輕鐵。方案有「下班車幾時到？」Siri捷徑，用家不必解鎖電話，只要說出指令便可獲得實時到站時間。駕駛人士亦可以透過行車速度資訊、交通快拍圖像等即時知道路面情況，為出門做足準備，縮短通勤時間及有助舒緩交通擠塞情況。

程式亦提供個人化設定，讓用戶設計出屬於自己的widget，締造既方便快捷又個人化的體驗。

### 評審委員會評語

數據通的解決方案充分利用開放數據和widget功能，提供人性化的信息，讓使用公共交通工具出入的人生活更輕鬆。正如創辦人形容方案是「用戶流動裝置的小助手」，小事可以改變我們的日常生活，微小創新也能迸發巨大影響。

開放數據為私營企業提供了創造嶄新解決方案的絕佳機會。數據通展示了一個小團隊如何創建一個“小助手”，讓我們的城市更智能化。

# Smart Mobility (Smart Transport) Bronze Award 智慧出行 (智慧交通) 銅獎

**MTR Corporation**  
**港鐵公司**

[www.mtr.com.hk](http://www.mtr.com.hk)

## Digital initiatives to enable smart mobility on MTR Tuen Ma Line

Embracing the Government's vision on Smart City, MTR is committed to bringing a better digital commuting experience to passengers by utilizing the latest technology. With the opening of Tuen Ma Line, the public company have launched the following digital initiatives to enable smart mobility:

- Train Car Loading Indicator
- Waiting Time Indicator at Tai Wai Station

Real-time Train Car Loading information of the next arriving train is measured and analyzed from the train car air-bag pressure sensor and displayed via Passenger Information Display System (PIDS) located at the platforms. Passengers can refer to red, amber and green loading indicators and head for a less crowded car while waiting at platform.

Waiting Time Indicator provides the real-time and upcoming three hours estimated waiting time at Tai Wai Station, via MTR Mobile app and PIDS at station concourse. Computer vision cameras have been installed to collect real-time crowdedness information at platform and analyze using video analytic and machine learning technology, helping commuters to plan their routes ahead.

Both initiatives utilize the latest technology to make customers' journeys "Smarter".



## Comments from Judging Panel

The solution has demonstrated a good deployment applying both technology innovation and pragmatic consideration on enhancing the passenger experience. Different technologies such as IoT sensors, video analytics, mobile application, data analysis and data visualization etc were adopted to arrive at an optimal outcome, and detailed design & analysis effort was spent to assure the accuracy as part of the performance level in enhancing the passenger experience.

Apart from enabling the smart mobility for train passengers journey on Tuen Ma Line, this will be a solution that can be further extended to cover other train lines for the benefits of all Hong Kong passengers.



## 港鐵屯馬綫-數碼項目推動智慧出行

配合政府智慧城市的願景，港鐵公司致力使用不同的新科技去提升顧客的數碼乘車體驗。藉著屯馬綫通車的契機，港鐵公司推出了兩項數碼項目，推動智慧出行：

- 「車廂載客顯示」功能
- 「預計候車時間」功能

透過量度及分析車廂氣囊氣壓感應器的數據，「車廂載客顯示」功能能夠運算出下一班列車每卡車廂的實時載客量。相關資訊會在屯馬綫月台上的乘客資訊顯示屏以紅、黃、綠三色顯示，方便顧客前往較少人的車廂候車。

「預計候車時間」功能應用於屯馬綫的大圍站。透過安裝於月台的網絡攝錄機收集實時人流數據，並通過視頻分析及機器學習進行解讀，系統會計算出實時及預計未來三小時平均候車時間。相關資訊會在 MTR Mobile 及車站大堂的乘客資訊顯示屏顯示，幫助顧客規劃行程。

這兩項數碼應用結合多項創新科技，推動智能化的乘客旅程。

## 評審委員會評語

港鐵屯馬綫-數碼項目充份展現出如何糅合創新技術及實際用家需要，以完善乘客體驗。方案採用物聯網傳感器、視頻分析、流動應用程式、數據分析和數據可視化等不同技術以達致最佳效果，並透過仔細的設計和分析工作去確保準確性，提升乘客體驗。

方案除了應用於屯馬線外，亦可以擴展到其他路線，惠及全港乘客。

# Smart Mobility (Smart Logistics) Gold Award 智慧出行 (智慧物流) 金獎

Appcider Limited  
<https://www.shipany.io>



## ShipAny - Smart Logistics Gateway for E-Commerce

ShipAny is the first smart logistics gateway in Hong Kong which connects major eCommerce platforms and logistics couriers. ShipAny not only provides real-time logistics tracking, but also a one-stop, end-to-end solution for eCommerce logistics operations.

With a single and unified access point at ShipAny, eCommerce merchants could connect to logistics couriers instantly online, whereas logistics companies can reach out to the eCommerce customers group. The features of ShipAny include:

- Auto Onboarding: Easy registration on ShipAny website to start shipping instantly, no need to apply for courier accounts separately
- One-Click Connect: Connect online store to ShipAny (and couriers) by one-click install store plugin (e.g. Shopify plugin). Merchant could also enjoy diversified logistics service through ShipAny web portal or Open API for all operations
- Real-time Rate Quotation & Comparison: Based on weight, temperature, delivery lead time and destination, choose the best couriers to fit the need
- Logistics Automation: Automatically submit the shipping order to logistics couriers, request on-site collection, automatically generate and print the waybill and track order status
- Diversified Options: Door-to-door pickup and delivery, smart locker, convenience store pickup and frozen cold-chain shipping
- Consolidated Billing with Online Payment: With single ShipAny account to enjoy all couriers' service and easily settle billing through online payment

ShipAny fills in the missing gap between merchants and the logistics industry in the E-Commerce ecosystem. Each logistics service provider has its own advantages, and ShipAny service is a collection of these advantages.

## Comments from Judging Panel

Shopping online has become a new normal and the transaction volume is getting bigger and bigger. Handling all the logistics in booming eCommerce market is a serious pain point for many eCommerce players, merchants and customers. Appcider's ShipAny positions itself well in this uprising trend in the eCommerce ecosystem. Just a few years since they started, they have already partnered with the top eCommerce players and large companies in Hong Kong and empowered them with a convenient and effective logistic gateway solution with great success on their achievement in terms of customer traction and partner collaboration.

## ShipAny - Smart Logistics Gateway for E-Commerce

ShipAny是香港首個連接主要電子商務平台和物流快遞公司的智能物流平台，為網店及電商提供實時物流追蹤及一站式的物流自動化解決方案。

通過ShipAny，網店店主可以網上即時連接物流快遞，而物流公司亦可接觸目標電商客戶。ShipAny主要功能包括：

- 自助登記：在ShipAny網站自助註冊，即時發貨，無需申請物流快遞賬戶
- 一鍵連接：一鍵安裝網店插件(如Shopify插件)，將網店連接到ShipAny和物流快遞。網店店主還可以通過ShipAny Portal或Open API獲得多元化的物流服務
- 實時報價和比較：根據重量、溫度、運送時間和目的地，選擇最合適的快遞公司
- 物流運作自動化：自動將運送單送給物流服務商，要求上門取件，自動打印運單及運送追蹤
- 多元化物流選擇：上門取貨、智能儲物櫃、便利店取貨、冷凍運輸等多元化選擇
- 網上支付合併賬單：一個ShipAny賬戶即可使用所有快遞服務，並通過網上支付輕鬆結算賬單

ShipAny是電子商務生態系統中商家與物流行業之間的橋樑。每個物流服務商都有各自的優勢，ShipAny擁有結合這些優勢的能力。

## 評審委員會評語

網上購物已成為新常態，交易量越來越大。在蓬勃的電子商務市場中，許多電商、商家和客戶都認為處理物流運輸是個大難題。Appcider的ShipAny方案在電商市場生態中具備獨特市場定位。公司在成立不久已成功與海內外頂尖的電商和大型企業建立了良好的合作關係，為他們提供方便有效的物流解決方案，在客戶增長率和夥伴協作方面有顯著成就。

# Smart Mobility (Smart Logistics) Silver Award 智慧出行 (智慧物流) 銀獎

Environmental Protection Department /  
Kanhon Technologies Limited  
環境保護署 / 看漢科技有限公司  
www.epd.gov.hk / www.kanhan.com

## “HoHoSkips” Collection and Recycling Service for Construction Waste

The Environmental Protection Department launched a trade-led pilot scheme in February 2021 on collection and recycling of construction waste with the funding support from the Recycling Fund. Renovation contractors may arrange collection of construction waste by recyclers, instead of delivery to landfills at remote locations. Through consolidated delivery and waste separation, the pilot scheme effectively saves the cost and time for disposal of small quantities of construction waste.

Through the use of mobile app “HoHoSkips” and “Smart Skips” (i.e. skips installed with GPS devices, tail lifts, mechanical covers and 4G mobile network-connected surveillance cameras) the pilot scheme provides the renovation trade with a convenient, time-saving and efficient construction waste collection service, which also helps reduce illegal dumping of construction waste at source.

Other than booking collection service, “HoHoSkips” mobile app and system allows users to keep track of the real-time positions of waste collection vehicles and contact recyclers, facilitates both recyclers and EPD to closely monitor recycling operation, and enables recyclers to give incentive to users to properly separate construction waste by giving positive remarks and e-coupons to them.

## Comments from Judging Panel

Collection of small quantity of construction waste is usually not cost effective and is the major painpoint. “HoHoSkips” has developed a new business model to collect and recycle of construction waste, which shown a significant result (through pilot scheme in Sham Shui Po district) in reducing illegal dumping of construction waste at source. The key innovation and creativity lies in the change of logistics flow of waste collection with the concept of consolidated delivery using ICT to raise the cost effectiveness of waste disposal.

Smart Skip  
智能環保斗



## 「好好斗」建築廢物收集及回收服務

環境保護署於2021年2月推出了由回收基金資助及業界主導的建築廢物收集及回收服務先導計劃。裝修承辦商可安排回收商收集建築廢物，而不需要運到偏遠的堆填區。透過集運及回收分類，先導計劃有效減低棄置少量建築廢物的成本及時間。

先導計劃透過利用「好好斗」流動應用程式及智能環保斗(即裝有GPS設備、4G流動網絡監察攝錄機、尾端升降台及機動蓋掩的環保斗)，為裝修業界提供方便、省時及有效的建築廢物收集服務，亦可從源頭上減少非法棄置建築廢物。

除了預約收集服務外，「好好斗」流動應用程式及其關聯系統亦讓用戶隨時掌握回收車的實時位置及聯繫回收商，方便回收商和環保署緊密監察回收運作，並容許回收商給用戶好評及電子優惠券，以鼓勵他們妥善分類建築廢物。



## 評審委員會評語

收集少量建築垃圾通常不符合成本效益，是很多人的主要痛點，這個應用程式帶來新的收集和回收建築廢物模式，在減少源頭非法傾倒建築廢物方面(通過深水埗區試點計劃)取得顯著效果。方案透過資訊及通訊科技發展創新整合交付的理念，以改變垃圾收集的物流流程並提高垃圾處理的成本效益。

# Smart Mobility (Smart Logistics) Bronze Award 智慧出行 (智慧物流) 銅獎

PaySmart Capital Limited (Liquid)

<https://www.liquid.com.hk>



## Trusted Data by Blockchain, Turn Data into Working Capital

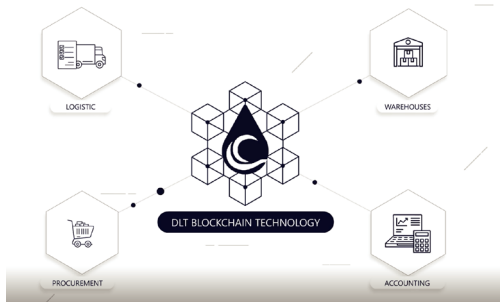
LIQUID, a brand under PaySmart Capital Limited, is the pioneer of trusted data backed by Blockchain technology launched in 2019. LIQUID provides business enterprises and entrepreneurs a reliable, cost effective and instant trade finance experience.

By creating a trusted end-to-end trading ecosystem connected with a well-recognized eProcurement system, Warehouse Management System (WMS), and Transportation Management System (TMS), LIQUID offers a platform which centralizes the entire trading process flow from purchase orders, pick-and-pack instructions, product delivery to invoicing. Thus transforming the process into robotic process automation (RPA) to eliminate tedious manual tasks.

With the application of Blockchain technology, all transaction data on LIQUID are cryptographically linked and chained via Distributed Ledger Technology (DLT), with decentralized database managed by multiple participants. The data are therefore permanent, verified, immutable and traceable.

Besides streamlining trading process, LIQUID also partners with banks to offer a low interest and quick turnaround commercial loan solution, resulting in an easier and more efficient end-to-end trade finance process with enhanced security and fraud prevention.

LIQUID's trusted data make businesses more efficient, secure, and competitive. LIQUID's network- convening expertise and the industry leading technology can help businesses reinvent trade and trade finance.



## 區塊鏈認證數據，將數據變成流動資金

LIQUID是PaySmart Capital Limited旗下品牌，於2019年推出的區塊鏈認證數據的先驅。Liquid為企業及創業家帶來可靠，即時兼具成本效益的貿易融資方案。

LIQUID通過對接廣受認可的電子採購、倉庫管理(WMS)、物流管理(TMS)等系統，創建可信的端到端貿易生態圈，並提供一個平台將整個貿易過程(從採購訂單、揀貨和包裝、產品交付到發票) 統一化，從而轉型成機器人流程自動化 (RPA) ，省卻繁瑣的人手工序。

透過應用區塊鏈技術，所有LIQUID上的交易數據都通過分布式帳本技術(DLT)進行加密鏈接。分散的數據庫由多個參與者管理，確保數據是經核實、不可更改和可追溯的。

除簡化貿易流程，LIQUID還與銀行合作，提供低利率和快速周轉的商業貸款解決方案，讓貿易融資流程變得簡單、高效的同時，增強安全性和預防欺詐。

LIQUID的認證數據使企業業務更具效率、安全性和競爭力。LIQUID的專業知識和領先行業的技術，可助企業重塑貿易和貿易融資。

## Comments from Judging Panel

One of the biggest challenges for SMEs is to get a good credit report for their loan applications to banks. Pysmart's LIQUID aims to solve this problem with big data and blockchain technologies. LIQUID provides a real time, seamless, paperless, and instant trade finance experience with trusted data. Trusted data have multiple usage, from bank loan application, new client business verification to corporate credit reports. Their innovation on leveraging on blockchain to build the trust among all the stakeholders, empower banks to finance their SME customers with confidence and support good SMEs to get their loans when they needed the most.

## 評審委員會評語

中小企的最大挑戰之一是獲得一份良好的信貸報告，以申請銀行貸款。Paysmart Capital 的 LIQUID方案旨在通過大數據和區塊鏈技術解決此問題。LIQUID通過可信的數據提供即時、無縫、無紙化和即時貿易融資體驗。可信數據具有多種用途，從銀行貸款申請、新客戶業務驗證以至企業信貸報告。該創新方案善用區塊鏈幫助持份者建立信任，提升銀行對中小企客戶融資的信心，支援優質中小企所需要。



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

**Autotoll International Limited**  
**快易通國際有限公司**

[www.autotoll.com.hk](http://www.autotoll.com.hk)

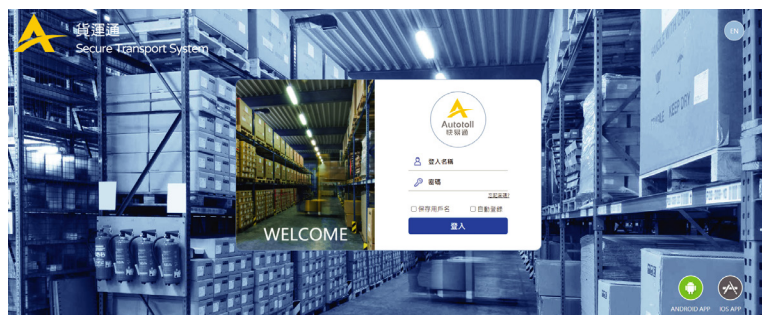
## Secure Transport System

The “Secure Transport System” (STS) is a patented solution integrated with ICT elements, providing ultimate protection to high-value goods logistics.

STS consists of a web-based system and a mobile application, as well as the Electronic Net (E-Net) and the Electronic Lock (E-Lock), which helps to enhance the efficiency and security of the logistics flow. ICT elements such as GPS / BeiDou tracking technology, Geographic Information System (GIS), Radio Frequency Identification (RFID), LTE network, LoRa technology, Cloud computing and user application layers are included to allow operators in the logistics industry to interact with STS.

For the system design, each module has its unique function to deliver key features collaboratively - from inputting shipment particulars at the online portal, information sharing with mobile application and system-to-system interface, checker identification via RFID and authentication, real-time security monitoring, location tracking and unauthorized movement detection to meet expectations from the shipper.

In conclusion, the launch of STS brings a brand new smart logistics solution experience to the industry, providing reliable security and information circulation throughout the entire process of high-value goods logistics, and effectively saving costs.



## Comments from Judging Panel

Security is always a pain point of the current cross boundary logistics operation. The STS provides a comprehensive information sharing platform and real time security monitoring for logistic users, operators and authorities that address the pain point.

STS has enhanced the efficiency, information sharing capability and security of the logistics processes, with innovative use of technology to streamline the cargo handling arrangement to a smarter and more sustainable logistic operation.



## 貨運通

「貨運通」是一套具備專利的綜合物流保安方案，為價值高的商品物流提供高效安防解決方案。

「貨運通」結合網上平台系統、手機應用程式，以及電子網和電子鎖，加強貨物運安全性及物流營運效率。它匯合了多項資訊及通訊科技元素，包括全球衛星定位系統、北斗衛星定位系統、地理信息系統(GIS)、無線射頻識別 (RFID)、無線資料傳輸、LoRa低功率廣域網絡、雲端計算和用戶應用界面，讓物流業界營運者可透過「貨運通」聯繫。

在系統設計上，各模块化具獨特功能，包括用戶於網上平台輸入運單訊息、手機APP界面及系統對接上的數據資訊共享、身份核實、實時安防警報監控和貨物定位，滿足付貨人對物件運送的保安監察要求。

總括而言，「貨運通」的推出能為業界帶來嶄新的智慧物流方案體驗，為高價值商品物流提供可靠的安保及訊息流通，並有效節省成本。

## 評審委員會評語

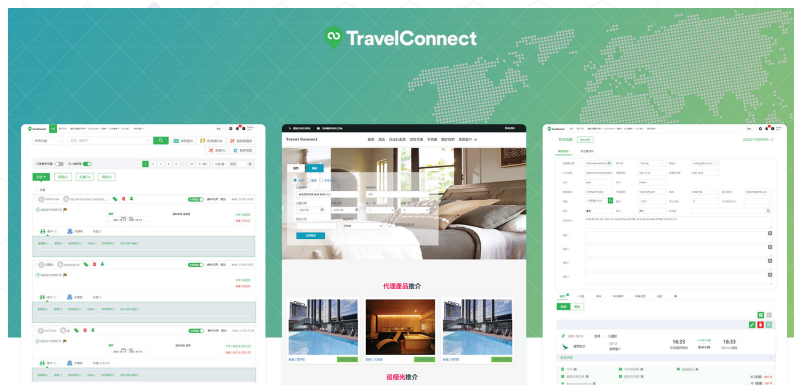
安全一直是當前跨境物流營運的痛點。貨運通(STS)提供全面的資訊共用平台，讓物流用戶、操作員和相關機構可即時進行安全監控、對症下藥。

貨運通(STS)不僅提高了物流過程的效率、資訊共用和安全性，還創新地善用科技簡化貨物裝卸安排，以實現更智能、更可持續發展的物流營運。

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

## TravelConnect Limited 旅接點

<http://www.travelconnect.co>



### TripOptimizer

In 2019, the number of Hong Kong air tickets processed by TravelConnect reached HK\$1.5 billion, accounting for roughly 5% of the total outbound air tickets in Hong Kong. It is mainly realised by the sophisticated technology and big data capability of TripOptimizer, a system customized for the travel industry which aims to maximize profits of travel agencies. The system is able to complete over 30,000 air tickets and 6,000 hotel related products searches per second. Its special features include:

- SaaS model enables travel agencies to operate as usual without time and geographical restrictions under the pandemic
- With big data analytics tools providing real-time insights of the market, the system can suggest appropriate selling prices of travel products to each customer segment, raising the agencies' profit
- The all-in-one platform can procure travel products around the world, thus accelerate the tourism business between Hong Kong and the overseas countries

TripOptimizer can also automate and digitize travel agencies operations, making management simpler and promoting new operators. The company aims to rejuvenate and promote the development of the travel industry, and assist the travel industry to accommodate the post-pandemic new normal.

### Comments from Judging Panel

TravelConnect has developed a new generation of tourism integrating system and apps, which is the first cloud tourism ERP and CRM system in Hong Kong. By connecting all ticket suppliers, hotel platforms and electronic ticketing platform, global activities ticketing, it can help HK travel agencies to upgrade and purchase all tourism products in one platform, such as directly issuing tickets in TripOptimizer without going through the process of middleman. The system is also equipped with big data analytics to understand customer insights, helping travel agencies to enlarge business & profits.

### 旅優

於2019年經旅接點(TravelConnect)處理的香港機票量達15億港元，佔香港總出境機票量約5%。這有賴於公司一套結合先進科技及數據分析的系統旅優，專為旅遊業界而設，為旅行社帶來最佳盈利。系統能每秒搜索超過30,000張機票及6,000個酒店相關產品。其出色之處包括：

- SaaS模式讓旅行社在疫情下不受時間及地理位置限制，如常運作
- 透過運用大數據分析洞悉即時市場所需，旅優可根據不同顧客群、建議旅遊產品的合適價錢，從而增加旅行社利潤
- 該一站式平台能採購世界各地的旅遊產品，促進香港與他國家的旅遊業務聯繫

旅優還可將旅行社營運流程自動化及數碼化，簡化業界營運、為新公司降低入行門檻。公司期望能為恢復及促進旅遊業界發展，幫助旅遊業應對疫情後的新常態。

### 評審委員會評語

TravelConnect開發出新一代的旅遊業專用的一體化系統以及apps，亦是香港首個於旅遊業應用的雲端企業資源及客戶管理系統。透過連接所有機票供應商、酒店平台及電子票務平台，讓旅行社可進行升級，在一個平台購買所有旅遊產品，例如是毋須中介公司、直接在旅優出機票。系統還配備大數據分析了解客戶，助旅行社擴大業務和利潤。

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

uHey Limited  
www.trailme.com.hk

## TRAILME

uHey Limited developed TRAILME, a new SMART outdoor experience platform for Trail Running Events.

TRAILME is the first IoT platform (B2C and B2B) dedicated to the trail running community that delivers unique experiences to the trail runners, their supporters, fans, friends and family. It is built on proprietary IoT technology, TRAILME allow runners to access real-time and live tracking data about their race that ultimately help them improve their performance. TRAILME also simplifies the tracking and monitoring of race participants and significantly helps race organizers to deliver enhanced experiences and safety to local communities. TRAILME brings the trail community together on and off-trail.

Website B2B – Event Management Portal

- Content Management System (CMS) to manage the entire event life cycle of an event
- Event Dashboard with the real-time monitoring of all participants and safety alerts

Website B2C – www.trailme.com.hk

- Event Calendar
- Blogs with interviews featuring events, racers, race organizers, newsletter

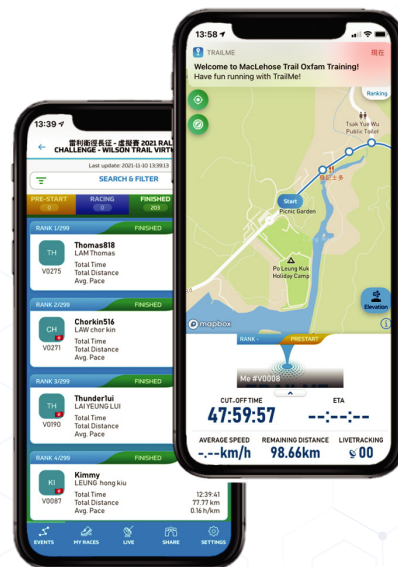
Mobile app – (B2C)

- Virtual and regular race formats
- Location tracking of any racer on map in real time and on altitude profile
- Personal performance information about each racer
- Real time updated ranking and leaderboard
- Livestream participation
- Finisher e-certification

## Comments from Judging Panel

TRAILME has provided a pragmatic platform with real-time and live tracking data of races to the trail running community. This is quite a new solution with proprietary IoT and Beacon location technology to deliver the service to the runners, running event organizers and other related parties. The service enhances experiences and safety to the participants and has been proven as it was used by Oxfam Trail walker recently.

The platform can also be extended to other types of sports in the longer run, and it can support virtual races as well which may be a common trend as a result of the pandemic situation.



## TRAILME

uHey Limited開發了TRAILME，為越野跑比賽帶來嶄新的戶外體驗。

TRAILME是首個為越野跑社群而設的物聯網平台(B2C及B2B)，為跑手、其朋友和家人帶來獨一無二體驗。透過專有的物聯網技術，TRAILME讓跑手利用實時追蹤數據，改善比賽中的表現。TRAILME同時讓賽事主辦更容易追蹤跑手，為本地社區帶來優質和安全的體驗。不論於山徑上或山徑外，TRAILME都能將越野跑社群聯繫在一起。

網站 B2B — 活動管理平台

- 內容管理系統 (CMS) 管理整個活動
- 活動儀表板提供跑手實時監測及安全警告

網站 B2C — www.trailme.com.hk

- 活動曆程表
- 各類活動、跑手、賽事主辦的部落格及通訊

手機應用程式 — (B2C)

- 虛擬及賽體賽模式
- 賽時顯示跑手在地圖上的位置及地形
- 跑手的個人表現資訊
- 即時更新的排名和排行榜
- 線上追蹤跑手
- 賽事完成電子證書

## 評審委員會評語

TRAILME為越野跑手們提供了一個具有實時比賽數據的實用平台。這個全新解決方案採用專有的物聯網和Beacon定位技術，為跑者、賽事籌備機構或相關組織及人員提供服務。此方案加強參賽者的比賽體驗和安全性，最近「樂施毅行者」亦有採用此平台，證明其實用性。

長遠來看，TRAILME還可以擴展到其他類型的運動，以及為疫情下的虛擬比賽提供技術支援。

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

Blue Pin (HK) Limited / Royal Plaza Hotel  
藍點子(香港)有限公司 / 帝京酒店  
<https://www.bluepin.hk> / <https://www.royalplaza.com.hk>

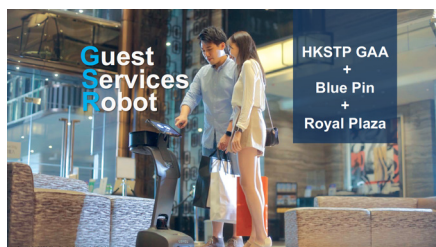
## Guest Services Robot

Through HKSTP Global Acceleration Academy (GAA) Hotels Accelerator, Blue Pin (HK) Limited collaborates with Royal Plaza Hotel to jointly develop HK's first Smart Hotel Guest Services Robot (GSR)<sup>TM</sup>.

Royal Plaza Hotel, owned by Sun Hung Kai Properties, is a five-star hotel located in Mongkok that opened in 1997. Blue Pin is a spin-off startup from PolyU and a member company of Incu-Tech programme in HKSTP.

GSR is a fully automated system to provide unique and innovative self-service hotel room check-in / check-out functions. To avoid long queuing at hotel lobby, guests can use GSR to complete check-in within minutes with a simple touch on the screen. GSR features include:

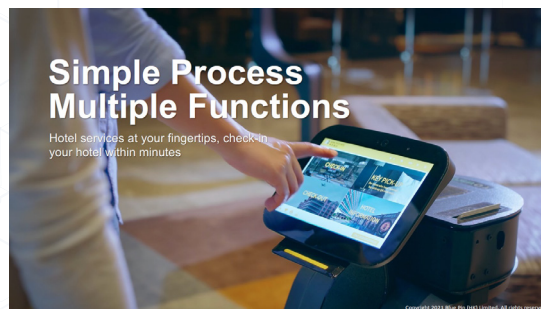
- Pre-Arrival Registration
- Check-In Service
- Wait-for-room / Key Pick-Up Service
- Check Out Service
- Marketing Promotion



GSR reduces hotel staff workload, relieves their pressure, reduces human-to-human interaction, simplifies the workflow and improves guest experience such that hotel competitiveness and brand image are enhanced. On the other hand, guests can perform simple and easy hotel room check-in/out on their own in a secure way ensuring privacy. After using the service, hotel guests posted positive comment in different travel websites. In near future, GSR will be deployed for hotels in local and overseas with further upgraded features and amenities.

## Comments from Judging Panel

The Smart Hotel Guest Services Robot (GSR) solution utilises IoT technologies to provide the hotel services in a self-serve futuristic way. The status of the services is uploaded to the hotel's management system immediately, this helps to minimize the waiting time and reduce "Human to Human" interactions under the current COVID-19 situation. The digitalized operation concept of the solution contributes to effective manpower allocation and guest satisfaction enhancement, so the common pain points of human resource mismatch and guest complaints in the hotel industry can be relieved.



## 客服機械人

透過香港科學園「環球創業飛躍學院」的酒店加速計劃,藍點子(香港)有限公司與帝京酒店合作開發香港首創智慧酒店客服機械人(GSR)<sup>TM</sup>。於1997年開業的帝京酒店由新鴻基地產擁有,是位於旺角的五星級酒店。藍點子是理工大學衍生的初創公司,也是科學園科技創業培育計劃的成員公司。

GSR是一個全自動系統,提供獨特且創新的自助式酒店入住/退房服務。客人只需輕按GSR屏幕,即能完成辦理入住過程,避免在酒店大堂長時間排隊。GSR的功能包括:

- 抵達前登記手續
- 辦理入住
- 等候房間/領取房匙卡
- 辦理退房
- 酒店資訊/營銷推廣

GSR能減輕酒店員工的工作量和壓力、減少人與人之間的接觸、簡化工作流程、改善客人在酒店的體驗,以提升酒店的競爭力和品牌形象。客人亦可以安全和隱私度高的方式辦理簡單的入住/退房手續。酒店客人使用後也在不同的旅遊網站上發布正面評論。在不久的將來,智慧酒店客服機械人(GSR)將在本地及海外其他酒店推出,並提供進一步升級功能和設施。

## 評審委員會評語

Guest Services Robot (GSR)善用物聯網技術,以嶄新自助形式提供酒店服務。服務進度會即時上傳到酒店的管理系統,在疫情下避免客人長時間輪候及減少客人與酒店員工之間的接觸。方案的數碼營運概念有助於改善人力資源配置,並通過高效的服務提升客人的滿意度,令酒店業常見人力錯配的痛點得以舒緩。

# 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](http://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](http://www.gs1hk.org)

# Acknowledgement 鳴謝

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HONG KONG  
ICT AWARDS  
2021 香港資訊及  
通訊科技獎

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The Government of the Hong Kong Special Administrative Region  
of the People's Republic of China  
中華人民共和國香港特別行政區政府 政府資訊科技總監辦公室

Leading  
Organiser  
籌辦機構



GS1 Hong Kong  
香港貨品編碼協會

Awards  
Supporting  
Organisations  
大會支持機構



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Technology Parks Corporation  
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Scoring System  
評分系統

