



Where Are We?



>12M

daily passenger journeys on public transport



mobile subscriber 283.75% penetration rate



6.54M +registrations

\$1 900B+ transactions



39 000+

free public Wi-Fi hotspots



4 200+ open datasets

10B downloads in 2020



93.7%

household broadband penetration rate

Smart City Blueprint 1.0 for Hong Kong





76
initiatives

5 smart areas 40+ Completed or under completion in phases

Initiatives Implemented after Release of Blueprint 1.0

- Smart Prison /Smart Customs Blueprint
- New on-street parking meters
- Adoption of technology in construction









Global Ranking

International Institute for Management Development

World Digital Competitiveness Ranking 2020 (Overall ranking)(8th in 2019)

7th World Competitiveness Yearbook 2020 (Technological infrastructure)(18th in 2019)

The Digital Intelligence Index Report

2nd Asia-Pacific region / 3rd World

Global Innovation Index

11th In 2020 (13th in 2019)



Blueprint 2.0 – Key Objectives

(a) members of the public can perceive benefits from smart city development



(b) quick-wins, visible, and impactful



(c) open and transparent



Summary of Blueprint 2.0

140 initiatives

- 6 smart areas
- new chapter on "Use of I&T in Combating COVID-19"

60+ new initiatives

	No. of initiatives in Blueprint	No. of initiatives in Blueprint 2.0
Smart Mobility	23	31
Smart Living	8	15
Smart Environment	10	18
Smart People	10	12
Smart Government	12	31
Smart Economy	13	20
Use of I&T in Combating COVID- 19	-	13
Total	76	140

Blueprint 2.0 - New Initiatives

SMART MOBILITY



- Traffic Data Analytics System
- Set up the Smart Traffic Fund

SMART LIVING



- "iAM Smart" to streamline TD's licensing services
- Telehealth, video-conferencing and remote consultation

SMART SMART SMART



- "Smart toilet" pilot and applytechnologies in public toilets
- Improve pest control using IoT technology etc.

SMART PEOPLE



- IT Innovation Lab in Secondary Schools
- STEM Internship Scheme

SMART 'GOVERNMENT



- Electronic Submission Hub forprocessing building plans
- 'Be the Smart Regulator' and 'Streamlining of Government Services' Programmes

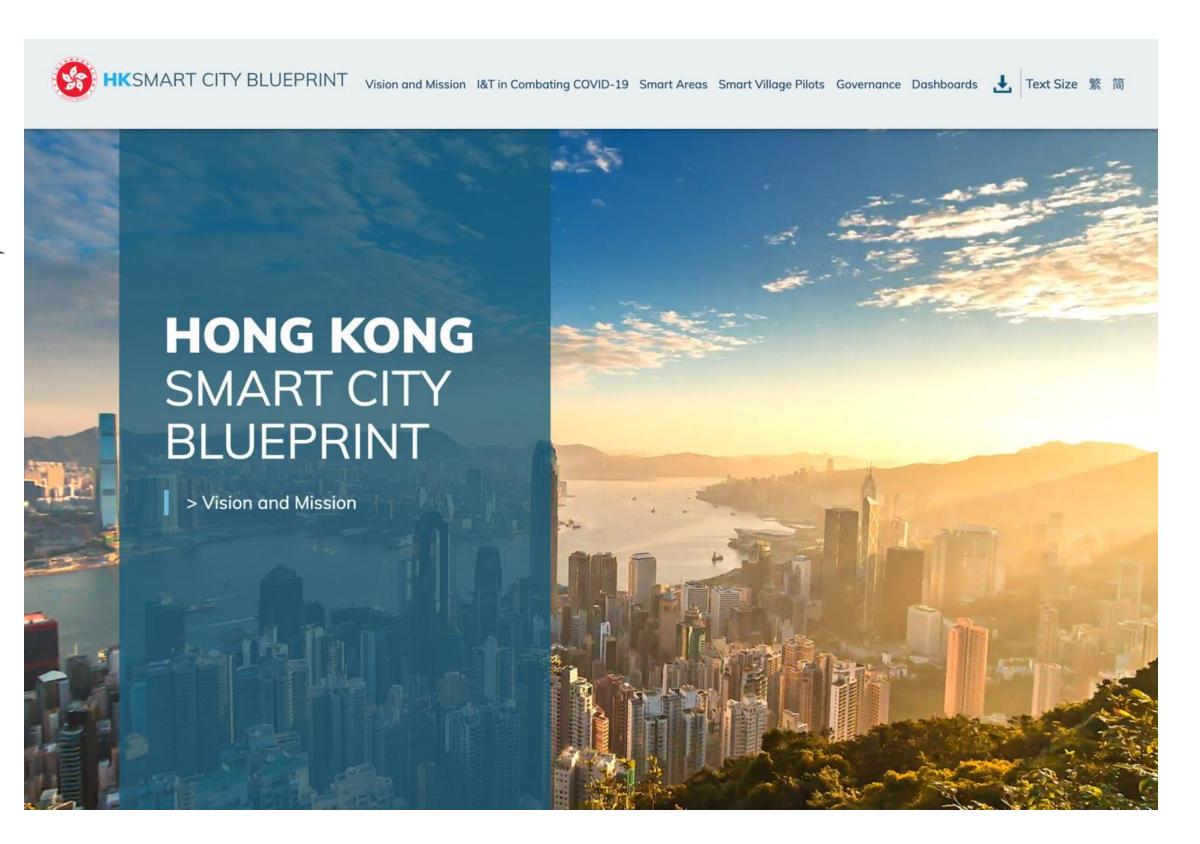
SMART ECONOMY



- Online dispute resolution and deal-making services
- eMPF Platform

Dedicated Smart City Portal

 Blueprint 2.0 uploaded to dedicated Smart City portal (www.smartcity.gov.hk)



Dedicated Smart City Portal – Progress of initiatives



HKSMART CITY BLUEPRINT Vision and Mission 1&T in Combating COVID-19 Smart Areas Smart Village Pilots Governance Dashboards



SMART GOVERNMENT INITIATIVES



Benefits

Open up more data in machine readable format on the Public Sector Information Portal for free use by the public, provide building blocks for research and development, facilitate innovation and smart city development

Progress

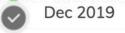
Open up over 230 new datasets in 2020. As at end Aug 2020, 171 new datasets have been opened up



Bureaux/departments are preparing their third annual open data plans



Bureaux/departments published their second annual open data plans



Opened up 700 new datasets in 2019 and launched City Dashboards



Real-time arrival data of New World First Bus, Citybus, New Lantao Bus and MTR Corporation (for 4 rail lines) opened up



B/Ds published first annual open data plans







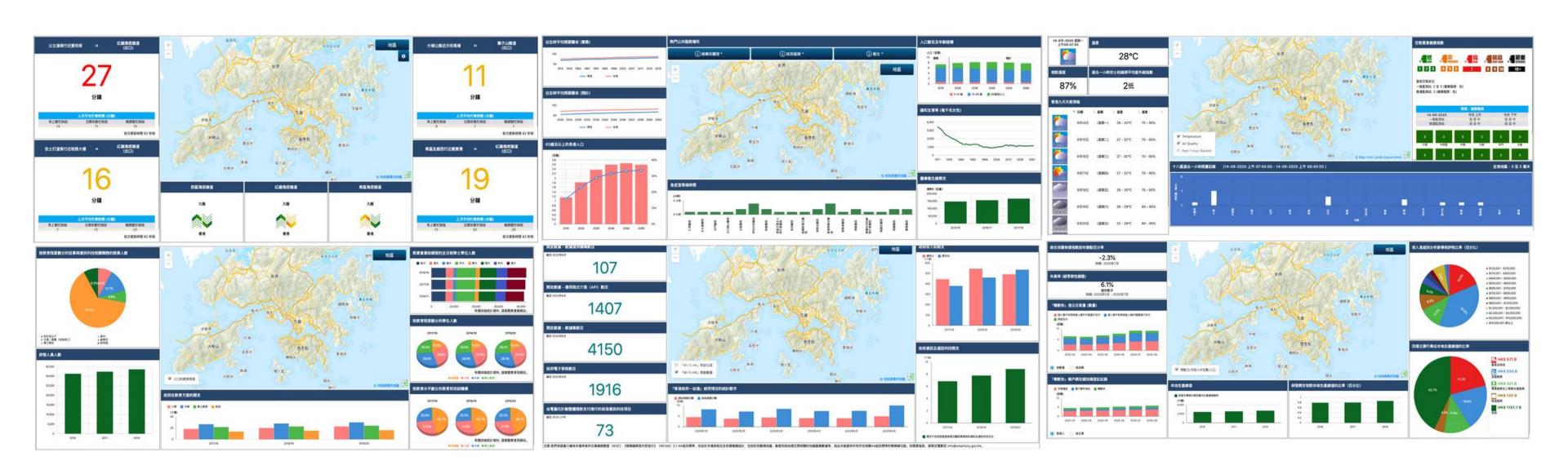
Continue to promote the opening up of data from public and private sector under the open data policy announced in 2018





Dedicated Smart City Portal - Dashboards

Six new smart city dashboards using open data



Blueprint 2.0 - New Chapter

USE OF I&T IN COMBATING COVID-19



- "StayHomeSafe" home quarantine system
- "LeaveHomeSafe" exposure notification and mobile app
- Promote contactless payments in public markets
- COVID-19 Online Dispute Resolution Scheme ...

Home Quarantine Solutions











Timeline

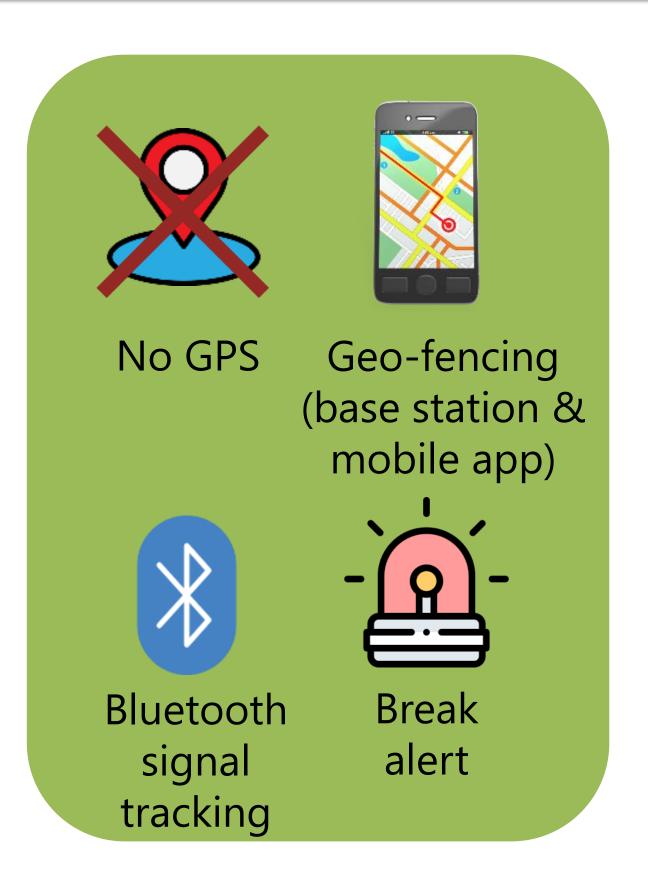
Jan 29	Started work to support Home Quarantine	
Feb 4	Hubei returnees	handmade e-wristband & IT monitoring system ready
Feb 8	All Mainland returnees	location sharing (Centres 1 & 2 for video calls, etc.)
Mar 9		pilot mobile app + e-wristband at HZMB
Mar 14 Mar 17	Italy, France, Germany, Japan, Spain Korea & Schengen	mobile app + e-wristband
Mar 19	All returnees from overseas	mobile app + QR code wristband (Centre 3 for central helpdesk, enquiry hotlines)
Mar 31	All overseas returnees via airport	mobile app + disposable e-wristband
Apr 4		Centre 4 to support data input
Apr 14	All returnees via all control points	mobile app + disposable e-wristband
Apr 27	Location sharing fully replaced by e-wristband	Centre 2 closed on 22 May

Home Quarantine Figures at a Glance

People under home quarantine: (cumulative since 4 Feb)	~533 000
No. of people using wristband :	~453 000
No. of people using location sharing:	~80 000
No. of spot checks, enquiries and support requests handled :	~490 000

Electronic Wristbands

Over 413 000 installed re-chargeable re-usable disposable disposable and re-usable base station



"StayHomeSafe" Mobile App



- R&D of local university and tech startup
- Detect and analyse changes of wireless signals and their strengths (WiFi, Bluetooth, GPS, telecom, etc.) in the environment (geo-fencing)
- Paired with disposable e-wristband with its Bluetooth as prime signal
- Convenient to apply; uninstall app and dispose of wristband after use
- No collection of personal data, preserve privacy

Monitoring Centres

Centre 1 (8 Feb) — Location sharing & spot checking







Centre 2 (24 Feb) - Location sharing & spot checking





Monitoring Centres

Centre 3 (19 Mar) – Helpdesk & mobile app user support





Centre 4 (4 Apr) – Data analysis and case investigation

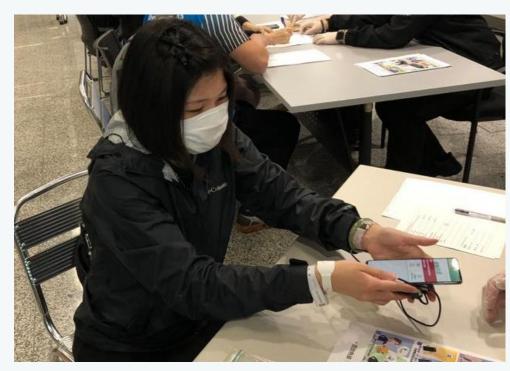






Service Desks at Control Points

HK International Airport







HK-Zhuhai-Macao Bridge





Shenzhen Bay





Device Pairing and Home Visits











Collaboration





- Design and produce first batch of 500 wristbands & IT monitoring system in 5 days
- Develop and support the IT system on wristband monitoring
- Sourcing, logistic and quality control of wristband manufacturing
- Mobilise over 700 staff, partners and volunteers (from IT industry, in-service & retired civil servants) for IT system support, device pairing at CHP, home visits, control points, helpdesk technical support, contractors training and supervision



COVID-19 Dashboard

Technology improves transparency and promotes Government and industry collaboration





Globally, as of 12:59pm CEST, 5 July 2020, there have been 11,125,245 confirmed cases of COVID-19, in 528,204 deaths, reported to WHO.

CuMask+ Registration and Distribution

6 May - 6 June 2020







On 6 May	Received over 720,000 registrations, covering around 2 million registrants
Up to 6 June	Received some 1.4 million registrations, covering around 4 million registrants
Up to 15 Jul	Over 4.1 million masks delivered / collected in first round
14 Sep – 4 Oct	Over 3.3 million masks delivered in second round
5 Oct – 31 Oct	Mask collection from counters in second round

Tight Schedule Large User Population

Large Influx of Workload within short period

Security & Privacy

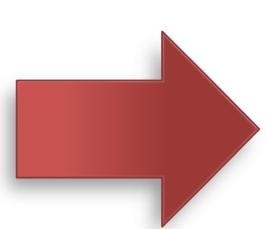


Cash Payout Scheme

Bank











Tight Schedule Large User Population

Collaboration
with Banks and
HK Post on
Various Stages
of Development

Security & Privacy

Multi-stakeholders collaboration and simplicity are key to success

Employment Support Scheme







Large User Population

Leverage on MPF
Trustees

Security & Privacy





Technology shortens time to deliver and improves scalability

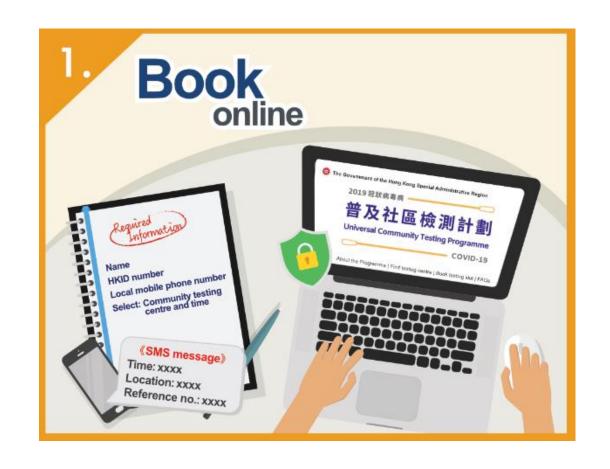
Universal Community Testing Programme

2019 冠狀病毒病

普及社區檢測計劃

Universal Community Testing Programme

COVID-19





Extremely Tight Schedule

Challenging Logistics and Onsite Support

Volatile Requirements

Security & Privacy

Technology helps to achieve impossible missions

Large-Scale Operation



- IT system, technical support
- Data and statistical analysis

440



• 24-hour hotline

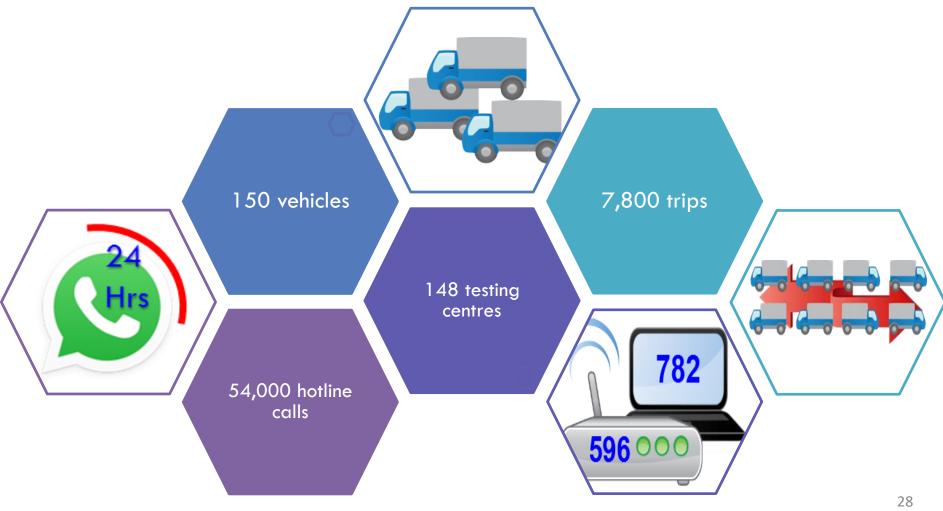


- Logistics system/control
- Supply chain management

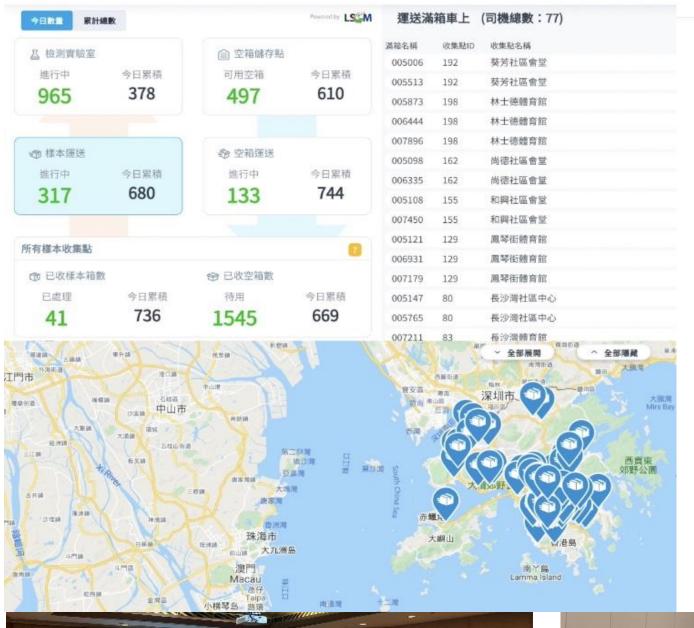
Contractors
1,300

• Security at centres, logistics, warehouse





Logistics and Operation Control





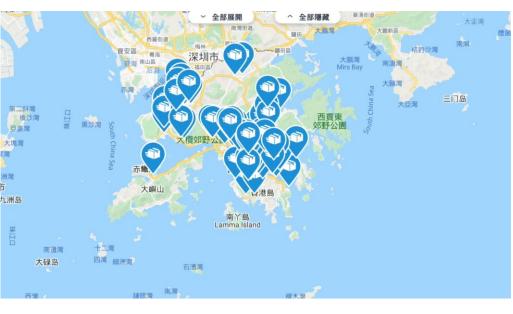






Timely and Secure Delivery





Man Yal Sen Memorial Park-Eports Gentre

Production of hourly & adhoc statistics/data analysis throughout the 14-day period

100%

Delivery of specimen boxes to four designated labs

1.5 hrs (from last

Within

- Two times daily for all 148 centres

specimen taken)

- Average unloading time

Less than
1 minute per
vehicle

Tracked by GPS/BLE

100% delivery (no loss)

Supply of UTM bottles and empty specimen boxes to 148 centres

100%
continuous
supply at all
times

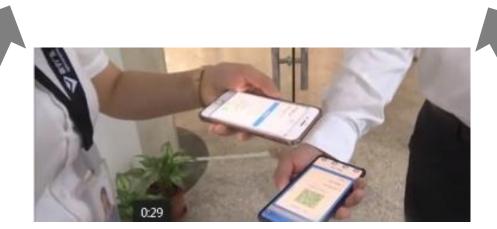
Health Code

Cross boundary cooperation through technology innovation









Cross
Boundary
Collaboration

Large User Population

Technical & Data
Standards

Security & Privacy















"LeaveHomeSafe" Mobile App



www.leavehomesafe.gov.hk

Mobile App	Launch Date
First Launch	16 November 2020
Updated (Reduced access permissions required)	30 November 2020
Updated (3 new functions enhancing UX)	11 December 2020

QR Code Registration	Launch Date
Online Venue Registration	19 November 2020
Express QR Code Registration Channel (for Catering and Scheduled Premises under Cap. 599F)	27 November 2020

Current Status @ end Dec 2020

➤ User download: Over 420 000

Venue participated: Over 67 000

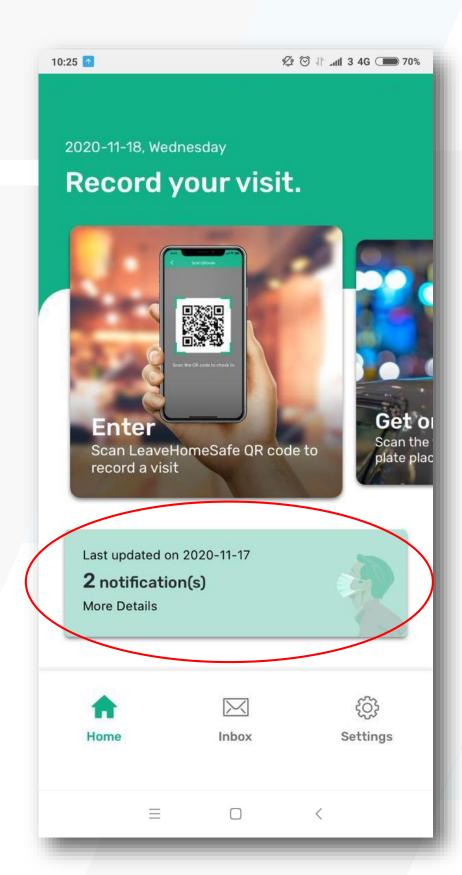
(Public: 13 300, Private: 53 800)

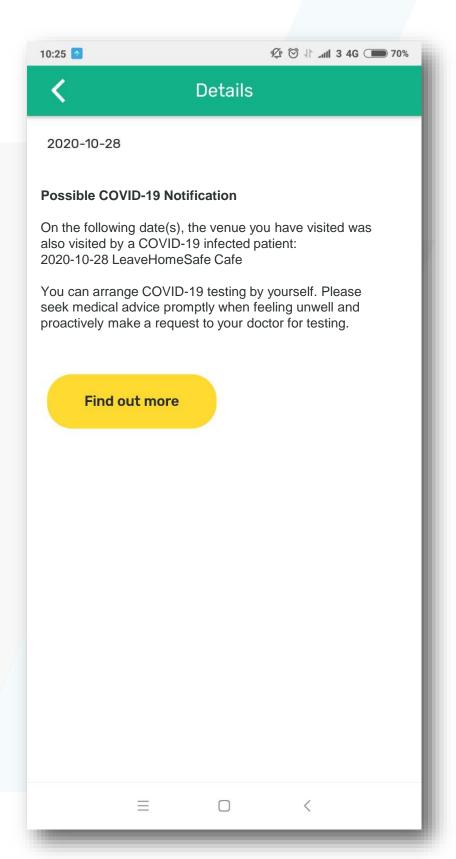
Usable in Taxis: Over 18 000



Send Notifications

- Match visit records
- Send notifications to users





iAM Smart Platform

One-stop personalized service platform as one of the major smart city infrastructures



iAM Smart Functions



Authentication



"e-Me"
Form filling



Personalised Notifications



Digital Signing





Government Online Services Adopted

Dec 2020

20+ services launched together with "iAM Smart"



Mid-2021

More than 110 services







Adoption of iAM Smart by Various Organisations





HONG KONG MONETARY AUTHORITY 香港金融管理局

Pilot Sandbox Programme



Integration Testing Environment (ITE)



More
business
sectors to
come...

FinTech tenants & incubatees





Visit <u>iamsmart@cyberport.hk</u> for details of the Pilot Sandbox Programme and ITE

COVID-19 e-Vaccine & Testing Record System



COVID-19
e-Vaccine & Testing Certificate System

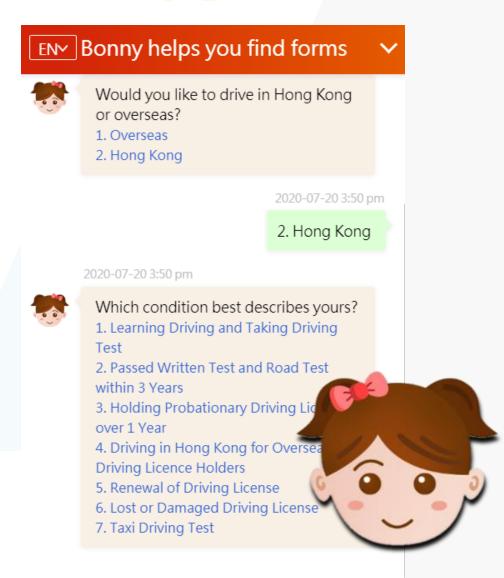
Apply e-Vaccine Certificate





Opportunities to Enhance Digital Government Services and Customer Experience

GOVHK香港政府一站通



Type Here (No personal data pls)



- One-stop e-services portal
- Convenient access to government information and services
- Single digital identity for authentication and conducting online transactions
- Popularise e-forms, auto-form filling, e-submission and digital signing
- Digital licences and certificates with the use of Blockchain



Key Messages

 Leverage local R&D and tech innovation to co-create solutions to meet different public and operational requirements

 Adopt the right technologies to make public services more scalable, responsive and user-friendly

 Strive for excellence in terms of system performance, reliability, security and privacy protection to meet high public expectations

