



Office of the Government Chief Information Officer
The Government of the Hong Kong Special Administrative Region

International Symposium on Road Congestion Charging

Smart Mobility and Privacy

3 December 2019



Smart City Blueprint

Smart Environment

Smart People

Smart Government

Smart Economy

Smart Living

Smart Mobility

Hong Kong
Smart City
Blueprint



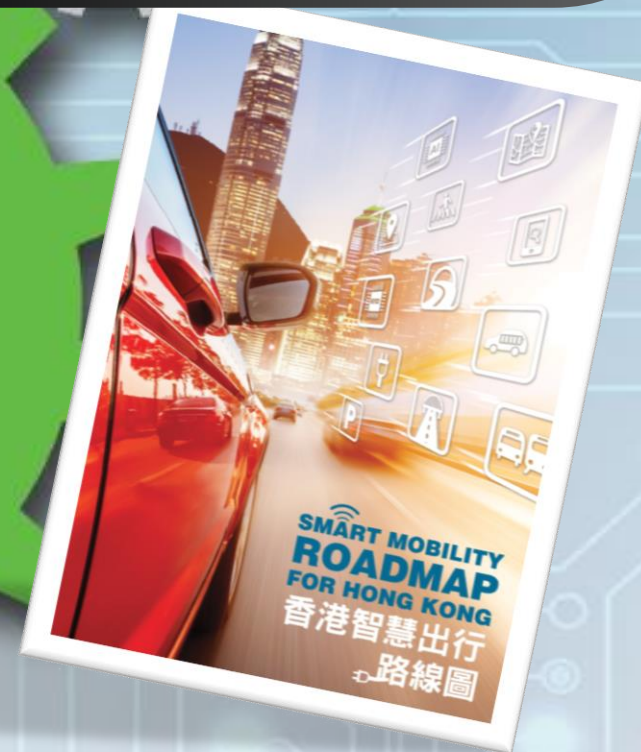
Smart Mobility Roadmap for Hong Kong

Applications
and Services
應用和服務

Data
Sharing
and Analytics
數據共享
和分析

Smart
Transport
Infrastructure
智能運輸
基礎建設

Safe Green Accessible
SIGMA
Informative Mobile





Smart Transport Infrastructure

Traffic Detector, Traffic Signal System



Traffic signal system

- sensors at signalised junctions
- detect real-time traffic volume



Traffic detector

- 1 200 traffic detectors along all strategic routes and major roads
- real-time traffic monitoring
- complete by 2020



In-vehicle Unit, Autonomous Vehicle

In-vehicle unit (IVU)

- unique identity of vehicle
- integral part of intelligent transport



Autonomous vehicle

- foster conducive environment for adoption
- trials by industry and R&D institutions



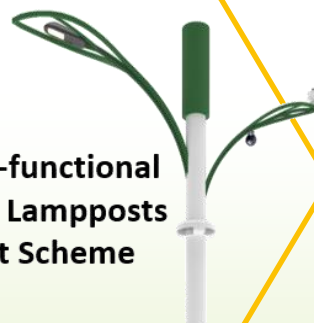
Multi-functional Smart Lampposts Pilot Scheme

- Set up Smart Lampposts Thematic Webpage to provide comprehensive information to the public
- Released smart lampposts locations and functions, and data collected as Open Data



- Launched 50 smart lampposts in Kwun Tong and Kai Tak Development Area

Multi-functional
Smart Lampposts
Pilot Scheme



- Technical Advisory Ad Hoc Committee to examine personal privacy protection technologies and measures



Privacy Considerations & Measures

- Personal Data (Privacy) Ordinance
 - ✓ six data protection principles
- Prevention of privacy risks
 - ✓ Privacy Impact Assessment (PIA)
 - ✓ Security Risk Assessment & Audit (SRAA)
- Public transparency



6 保障資料原則 Data Protection Principles

PCPD.org.hk

收集目的及方式
Collection
Purpose Et Means

1



準確性、儲存及保留
Accuracy Et Retention

2



使用
Use

3



保安措施
Security

4



透明度
Openness

5



查閱及更正
Data Access Et
Correction

6



Data Sharing and Analytics

**BIG
DATA**



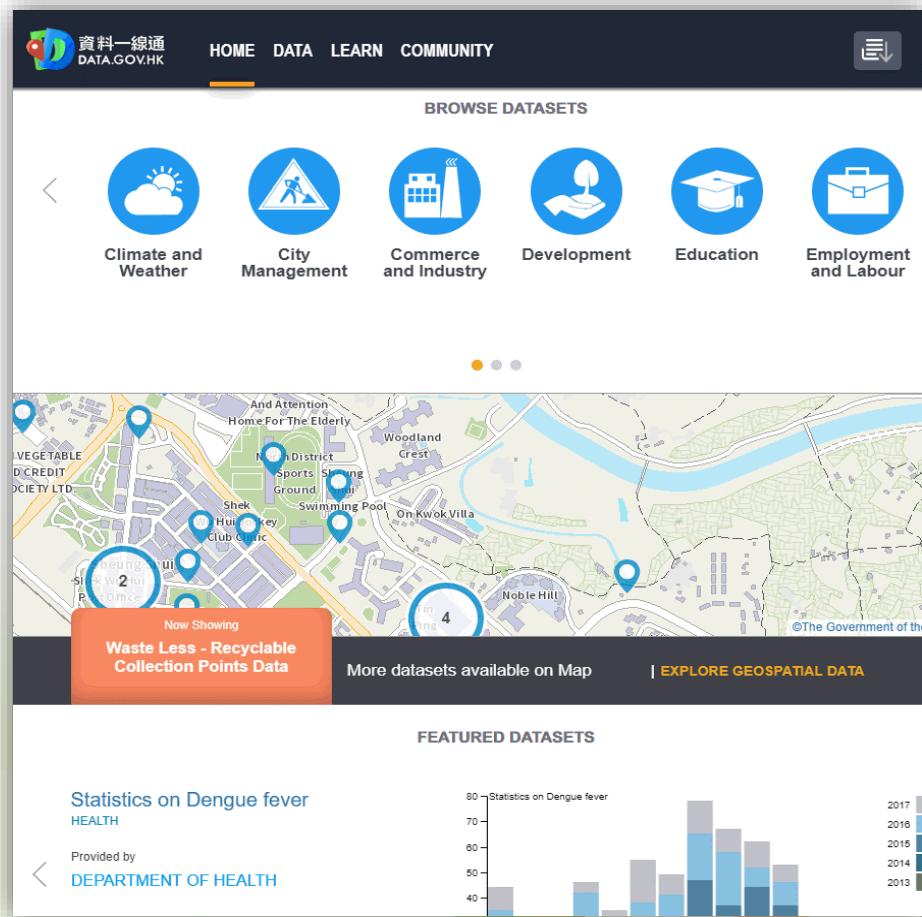
資料一線通
DATA.GOV.HK

PSI Portal

Traffic Data Analytics System



Smart Mobility with Open Data

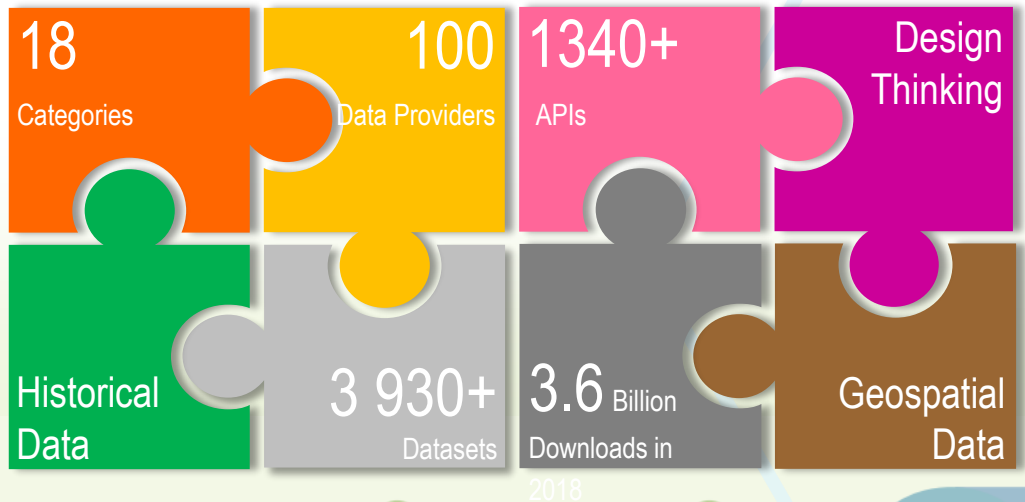


Real-time Estimated Arrival Time

新創建集團成員 Members of NWS Holdings

Open Data Policy

Next Milestone
2nd Annual Open Data Plan by December 2019



Open Data in Transportation

Data sharing

- real-time arrival data from transport operators (MTR & 3 bus companies)
- disseminated via "HKeMobility" & data.gov.hk

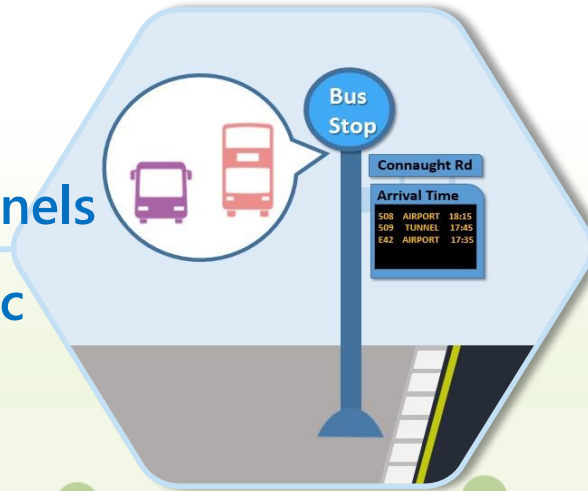


Green minibus
real-time
arrival data

- provide real-time arrival data
- facilitate fleet management

Real-time arrival information display panels

- installed at bus stops & public transport interchanges



Open Data in Transportation

Open Data Policy



資料一線通
DATA.GOV.HK



Road Network



Traffic Flow
and News



Road Works



ETA of Public
Transportation



Electric Vehicle
Charging Stations



Parking



City Dashboard

Facilitate general public to visualise open data



Stimulate Data Providers & Public to brainstorm for opening up more data



DEMO

Showcase the Use of Open Data



Stimulate Industry & Public to develop more Smart City related Innovation

Traffic & Transport Dashboard

Princess Margaret Road southbound near Oi Man Estate >> Cross Harbour Tunnel (Exit)		Tai Po Road – Sha Tin near the Racecourse >> Lion Rock Tunnel (Exit)													
<h1>13</h1> <p>Minutes</p>		<h1>8</h1> <p>Minutes</p>													
<p>Average Journey Time of Last Month (minutes)</p> <table border="1"> <thead> <tr> <th>Morning Peak</th> <th>Daytime Non Peak</th> <th>Evening Peak</th> </tr> </thead> <tbody> <tr> <td>15</td> <td>20</td> <td>27</td> </tr> </tbody> </table>		Morning Peak	Daytime Non Peak	Evening Peak	15	20	27	<p>Average Journey Time of Last Month (minutes)</p> <table border="1"> <thead> <tr> <th>Morning Peak</th> <th>Daytime Non Peak</th> <th>Evening Peak</th> </tr> </thead> <tbody> <tr> <td>8</td> <td>12</td> <td>20</td> </tr> </tbody> </table>		Morning Peak	Daytime Non Peak	Evening Peak	8	12	20
Morning Peak	Daytime Non Peak	Evening Peak													
15	20	27													
Morning Peak	Daytime Non Peak	Evening Peak													
8	12	20													
<p>Previous update time 113 secs ago</p>		<p>Previous update time 113 secs ago</p>													
Gloucester Road eastbound near the Revenue Tower >> Cross Harbour Tunnel (Exit)		Island Eastern Corridor westbound near Lei King Wan >> Cross Harbour Tunnel (Exit)													
<h1>10</h1> <p>Minutes</p>		<h1>18</h1> <p>Minutes</p>													
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Western Harbour Tunnel	Cross Harbour Tunnel	Eastern Harbour Tunnel													
<p>Kowloon</p>	<p>Kowloon</p>	<p>Kowloon</p>													
<p>Hong Kong Island</p>	<p>Hong Kong Island</p>	<p>Hong Kong Island</p>													

30-10-2019 11:35:16 AM

Wednesday Morning

25°C

53%

Special Traffic News

30-10-2019 10:59:12 AM
Newly Published Message
 The lane no. 3 of Chatham Road South Cross Harbour Tunnel bound near Hong Kong Polytechnic University which was closed due to road incident is re-opened to all traffic.

30-10-2019 10:59:12 AM
Re-published Message
 Due to watermain emergency works, the fast lane of Hang Hong Street Ma On Shan Road bound near Yiu On Estate is closed to all traffic. Only remaining lane is still available to motorists. Traffic is busy now.

30-10-2019 10:59:12 AM
Re-published Message
 Train service on all MTR Lines (except Airport Express), Light Rail and MTR Bus will end at 11pm today. If you need barrier free access, please contact the station to check the status before travel, as barrier free facilities may not be available. Please plan journey accordingly.

30-10-2019 10:59:12 AM
Re-published Message
 Airport Express is running normally between Hong Kong, Kowloon, Tsing Yi, Airport and AsiaWorld-Expo stations. Starting from 11pm, Airport Express will be running between Airport and Hong Kong stations only. Trains will not stop at Kowloon, Tsing Yi and AsiaWorld-Expo stations. MTR staff and Airport Authority staff will check flight tickets and travel documents in Hong Kong Station. Please allow more time for travel. In-town Check-in

Previous update time 2 min ago

Bus Stop - HSR West Kowloon Station

CTB W1

To Admiralty (West)

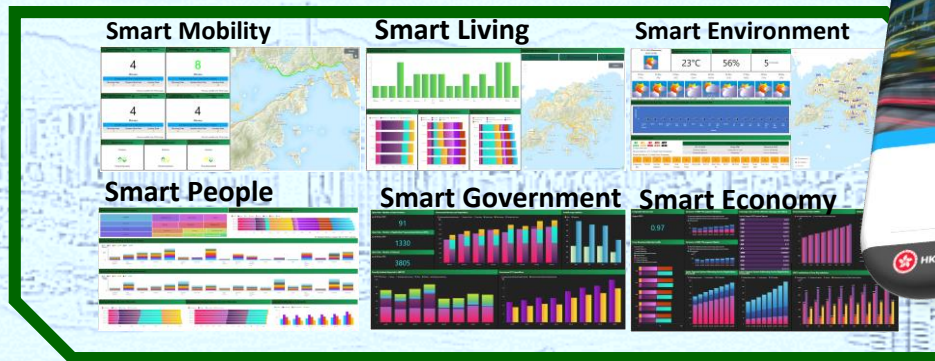
Arrival Time

3 min(s)

Passenger Mode

Smart City Blueprint 2.0

- Release Smart City Blueprint 2.0 for Hong Kong in 2020
- Revamp of Smart City Portal with up-to-date progress, new initiatives, and city dashboards
- Industry Engagement for building a smarter city together



Thank You

