





Chapter VI

Liveable City



From Belief to Implementation

“A liveable environment makes Hong Kong people happy, hopeful, confident about the future and have a sense of belonging to Hong Kong.”

“Public expectations for a ‘liveable city’ are rising. In addition to ample land and housing supply, green countryside, a beautiful harbour, a sustainable environment and heritage conservation are indispensable for a quality city.”

“We should honour the invaluable legacy of the ‘Pearl of the Orient’ and create a cosmopolitan city that embraces culture, arts and sports. This will give our citizens a home where they can enjoy physical health and cultural richness.”

Hong Kong is a compact and highly connected metropolis famous for its skyscrapers, world-class infrastructure and bustling city life. But it also has many soft appeals, as evidenced by our beautiful countryside and waters, wetlands and biodiversity, interesting islands, rich arts and cultural assets and exciting sports events. To meet the rising expectations of quality living, the current term Government has been striving to make Hong Kong a more charming and liveable place by investing in arts and culture, sports and recreation, environmental conservation, harbourfront enhancement, urban regeneration, smart city and transport infrastructure, etc. Over \$60 billion of new resources for sports development; 34% increase in annual provision for arts and culture; and \$19 billion for various schemes to promote building safety are some examples reflecting our commitment to improving the quality of life in this city.

Our efforts are bearing fruit: Hong Kong elite athletes have achieved unprecedented victory in the 2020 Tokyo Olympic Games winning one gold, two silver and three bronze medals; our paralympic athletes have achieved no little, bringing home two silver and three bronze medals; our athletes also captured two gold and five bronze medals at the 14th National Games concluded recently. The West Kowloon Cultural District is becoming a distinguished cultural landmark which will be enriched significantly by the opening of M+ in November 2021 and the Hong Kong Palace Museum by mid-2022. Our citizens are enjoying quality public space characterised by innovation and fun, with the completion of six kilometres of harbourfront promenade of the Victoria Harbour. A cycle track of about 60 kilometres

connecting eastern and western New Territories has been fully opened for use since September 2020, and another 2.3 kilometres in Tsuen Wan have been opened in July this year. The mega Kai Tak Sports Park is on schedule for completion in 2023. Building on the experience gained in the Energizing Kowloon East initiative, the Government is now taking forward the “Invigorating Island South” initiative to transform the Southern District into a vibrant hotspot for people to work, live, explore new ideas and have fun.

Environmental sustainability can enhance the liveability of a city. The current term Government has announced three blueprints for environmental protection, namely the “Waste Blueprint for Hong Kong 2035”, “Hong Kong Roadmap on Popularisation of Electric Vehicles” and “Clean Air Plan for Hong Kong 2035” to set out waste management strategies, promote electric vehicles and improve air quality respectively. To meet Hong Kong’s ambitious target of carbon neutrality before 2050, we will publish the “Hong Kong’s Climate Action Plan 2050” in October 2021, outlining for the public a comprehensive strategy to reduce carbon emissions.

Hong Kong has a rapidly ageing building stock in large quantity, posing challenges for a liveable city. The current term Government has allocated some \$19 billion to implement subsidy schemes and provide technical support to owners to enhance building safety, fire safety, lift safety and repair drainage systems of their aged buildings. Yet for old buildings that are beyond economical repair, redevelopment is a more practical option. We will consider the scope for lowering the compulsory sale threshold to facilitate redevelopment of old buildings. Together with the Urban Renewal Authority, we are also working on innovative implementation tools to speed up redevelopment and incentivise private sector participation focusing on Yau Ma Tei and Mong Kok, which may be applied to other districts.

Better Connectivity

Water Transport

New!

Central – Hung Hom Ferry Service

- Commenced operation in June 2020

Water Taxi

- Commenced trial services in July 2021

Railways

New!

Guangzhou-Shenzhen-Hong Kong Express Rail Link

- Commissioned in September 2018

Tuen Ma Line

- Commissioned in June 2021
- Longest railway line in Hong Kong: 56 km with 27 stations

Under Construction/Planning

Railway Project	Expected Commissioning
Shatin to Central Link (Hung Hom to Admiralty Section)	2022
Northern Link Phase 1	2027
Tung Chung Line Extension	2029
Tuen Mun South Extension	2030
Hung Shui Kiu Station	2030
Northern Link Phase 2	2034





Roads

New!

Hong Kong-Zhuhai-Macao Bridge

- Commissioned in October 2018
- Length: 55 km

Central - Wan Chai Bypass and Island Eastern Corridor Link

- Commissioned in February 2019
- Length: 4.5 km

Heung Yuen Wai Highway

- Commissioned in May 2019
- Length: 11 km

Tuen Mun-Chek Lap Kok Link

- Commissioned in December 2020
- Length: 9 km

Under Construction

Route 6

- Target commissioning: 2026
- Length: 12.5 km

Cross Bay Link, Tseung Kwan O

- Target commissioning: 2022
- Length: 1.8 km



Cycle Track

New!

Network between Ma On Shan and Tuen Mun

- Opened in September 2020
- Length: 60 km

Tsuen Wan Waterfront Cycle Track Section

- Opened in July 2021
- Length: 2.3 km

Carbon Neutrality before 2050

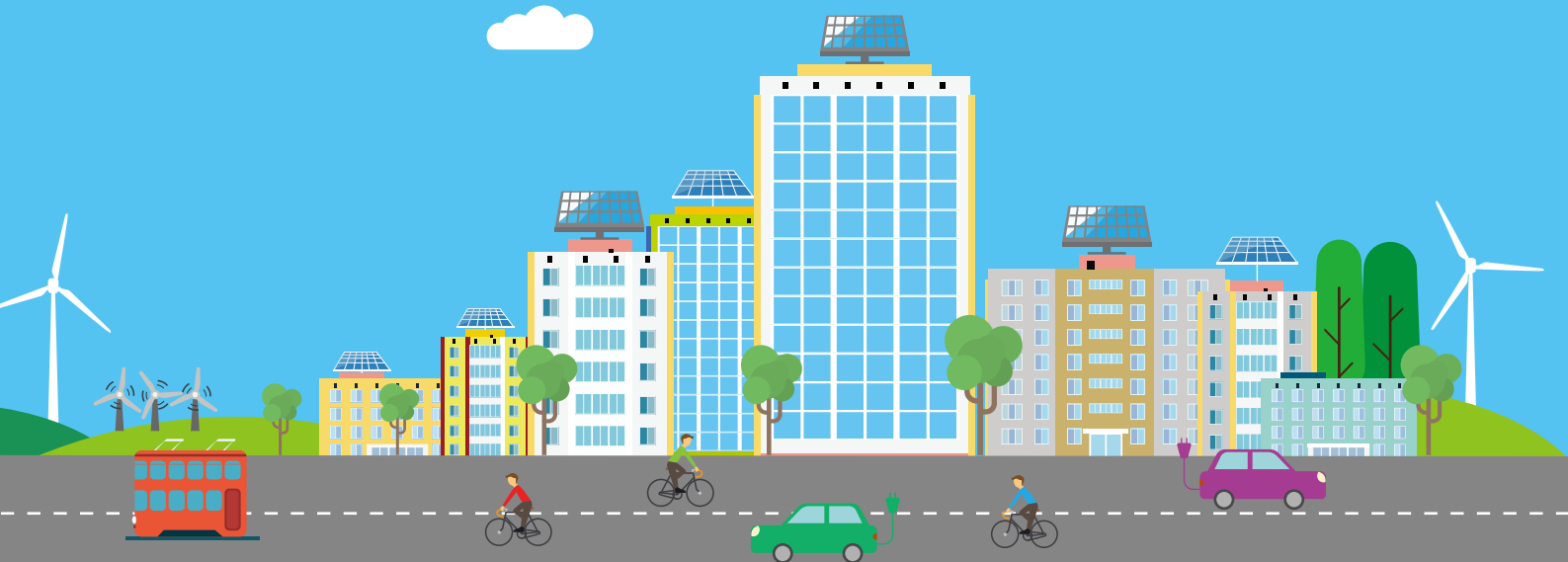
Sources of Hong Kong Carbon Emissions

(2019 figures)



Carbon Reduction Measures

- Adopt low-carbon technologies
- Electrify transportation, and provide adequate waste-to-energy facilities
- Achieve net-zero carbon emissions for electricity generation



Air Quality

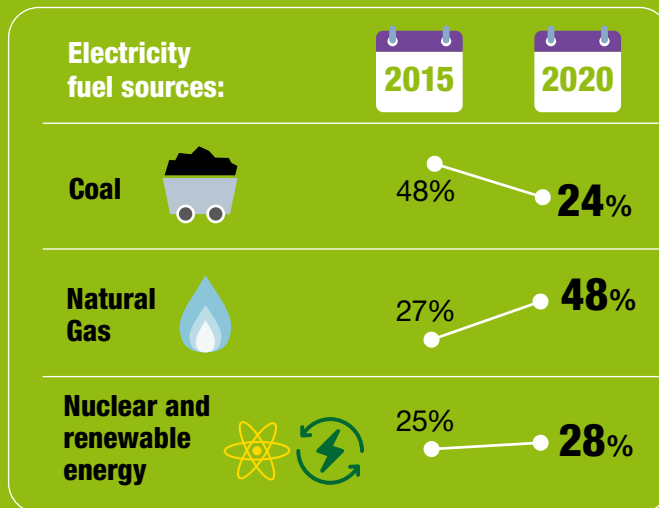
Major Progress

Improve Air Quality

(from 2017 to 2020)

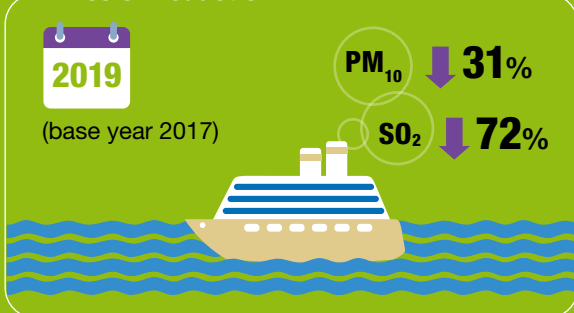
Air Pollutant	General	Roadside
PM ₁₀	↓ 23%	↓ 21%
PM _{2.5}	↓ 32%	↓ 27%
SO ₂	↓ 38%	↓ 29%
NO ₂	↓ 18%	↓ 19%

Phase Out Coal-fired Power Generation



Reduce Vessel Emissions

Emission reduction



Improve Roadside Air Quality



Clean Air Plan for Hong Kong 2035 @ June 2021

VISION



Healthy Living



Low-carbon Transformation



World Class

TARGET



Become a liveable city with air quality on par with major international cities



Air quality to fully meet the ultimate targets under the Air Quality Guidelines of the World Health Organization

Waste Management

Milestones of Waste-to-energy / resources Infrastructure in Hong Kong



Waste Blueprint for Hong Kong 2035 @ February 2021

VISION



Waste
Reduction



Resources
Circulation



Zero
Landfill

TARGET

Medium-term Target

Implementing MSW charging and other measures to gradually reduce the per capita MSW disposal by 40-45% and increase the recovery rate to about 55%



40-45%



~55%

Long-term Target

Developing adequate waste-to-energy / resources facilities to move away from reliance on landfills in the long run



Electric Vehicles

EV-Charging at Home Subsidy Scheme

(since October 2020)

Received over **490** applications covering more than **105 000** parking spaces, **75%** more than the original target

Hong Kong Roadmap on Popularisation of Electric Vehicles @ March 2021

Setting out the long-term policy objectives and plans to promote the adoption of EVs

VISION

Zero Carbon Emissions • Clean Air • Smart City

TARGET

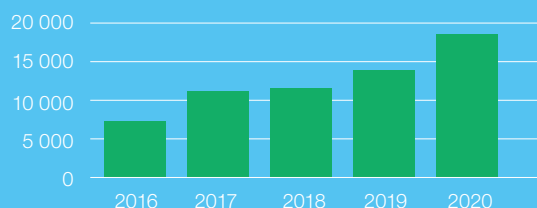
Zero vehicular emissions by 2050

To act in concert with Hong Kong's target to achieve carbon neutrality before **2050**

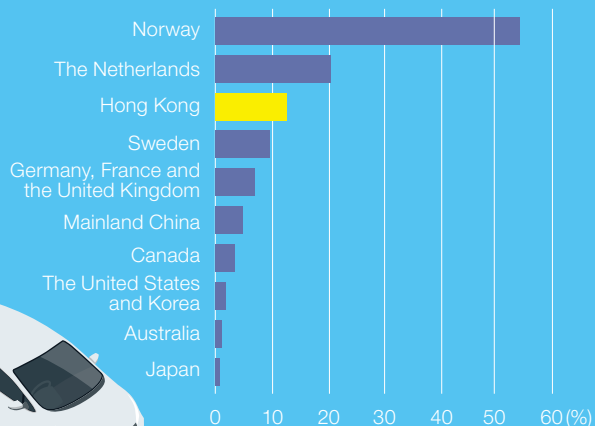


Growing Number of Electric Vehicles (EVs)

Total Number of EVs in Hong Kong in 2016-2020



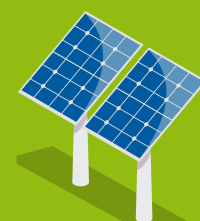
Electric private car market shares of major economies in 2020



Renewable Energy

Feed-in Tariff Scheme

- Number of systems connected to the power companies' grid (Q4 2018 to Q2 2021): Over **9 000**
- Number of applications approved (Q4 2018 to Q2 2021): Over **14 000**
- Systems already approved could generate over **220 million** kWh of electricity each year, meeting the annual electricity demand of over **67 000** households



Smart City Development

Smart City Blueprint for Hong Kong 2.0 @ December 2020
with over 130 initiatives in six areas:

- *Smart* **Mobility**
- *Smart* **People**

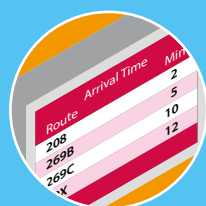
- *Smart* **Living**
- *Smart* **Government**

- *Smart* **Environment**
- *Smart* **Economy**



Free Wi-Fi

Provided over **43 000** Wi-Fi hotspots, covering **212** study rooms and youth service centres, and 24 village premises, etc.



Real-time Arrival Information of Franchised Buses

Display panels at more than **800** bus stops



New Parking Meters

- About **6 400** commenced operation
- **12 000** in full operation by mid-2022



"HKeMobility" Mobile App

- More than **2.6 million** downloads, with an average daily hit rate of **80 000**
- Real-time traffic information and real-time vacancy information of about **12 000** on-street parking spaces, **72 000** parking spaces in car parks
- Real-time arrival information of about **230** green minibus routes, aiming at covering all routes by end-2022

Faster Payment System

About **8.9 million** registrations, with an average daily turnover reaching **679 000** real-time transactions involving **HK\$5.2 billion** and **RMB 147 million** in August 2021



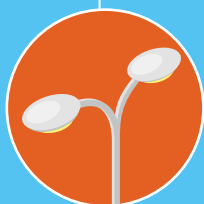
"iAM Smart"

Provides more than **150** online government, public and private services



Carbon Neutrality before 2050

- Carbon intensity in 2019: **35%** lower than 2005
- Electricity generation : Coal in fuel mix currently below **25%**, net-zero carbon emissions before 2050



LED Lighting

About **63 000** road lights, **3 000** floodlights and **7 700** fluorescent tubes replaced

Open Data (DATA.GOV.HK)


More than **4 800** datasets and **1 800** Application Programming Interfaces

Arts, Culture, Sports and Recreation

New and Coming Facilities



**60-km cycle track network between
Ma On Shan and Tuen Mun**
(opened in September 2020)




**2.3-km Tsuen Wan waterfront
cycle track section**
(opened in July 2021)

Kai Tak Sports Park
(target completion in the
second half of 2023)



**East Kowloon
Cultural Centre**
(open by phases
in 2023)



westKowloon

西九文化區



Xiqu Centre
(opened in January 2019)



Freespace
(opened in June 2019)



M+ Museum
(open in November 2021)



Hong Kong Palace Museum
(open in mid-2022)



Lyric Theatre Complex
(open in 2024)

**Major
harbourfront projects**



Hong Kong Museum of Art
(reopened in November 2019)



To-be-revitalised Ocean Park





Five-year Plan for Sports and Recreation Facilities

- Reserved HK\$20 billion for 26 projects
- Approved HK\$7.7 billion for **20 projects**
(including heated swimming pools, outdoor land sports facilities, pre-construction activities of a sports ground and amenity complex)

Five-year Programme on Public Play Spaces

- HK\$686 million to provide more than **170** innovative, challenging and interesting public play spaces



Sports & Recreation

Enhanced Support

- **Elite Athletes Development Fund:**
Injected HK\$6 billion; benefiting around 1 300 athletes/year
- **Arts and Sport Development Fund (Sports Portion):**
Approved over HK\$5 billion for more than 540 sports projects since 2017-18
- **Major Sports Events Matching Grant Scheme:**
9 events (320 000 spectators) held with HK\$29 million matching grant
- **Hong Kong Athletes Fund:**
Injected HK\$250 million;
over 120 athletes benefited since injection
- **Five-year Development Programme for Team Sports:**
Provided additional funding for National Sports Associations and direct monthly financial support to Hong Kong team members
- **Post-Tokyo Olympic Games and Paralympic Games measures to enhance elite sports development:**
 - Expediting the new building project of the Hong Kong Sports Institute costing HK\$990 million
 - Finance jointly with Hong Kong Jockey Club Charities Trust the setting up of a HK\$300 million funding scheme to enhance athletes' performance
 - Strengthening sports development in schools
 - Strengthening support for elite athletes' dual career development
 - Enhancement of professionalism and developing the sports industry



Disability Sports

In 2017

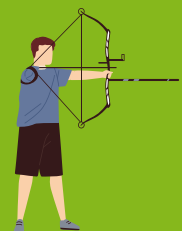
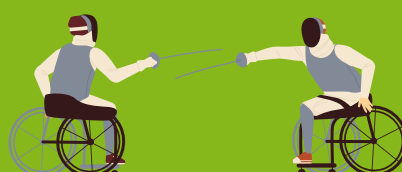
- Introduced a full-time athlete system
- Launched the Pilot Scheme for Elite Vote Support System (EVSS); **won a record-breaking total of 48 medals** in the 2018 Asian Para Games

Since 2019

- Implemented the enhanced full-time athlete system and EVSS

In 2021

- A total of six Tier A and three Tier B disability sports; over 100 elite athletes (around 50 full-time)



Proud of You!



Photo courtesy of SF & OC, Hong Kong Paralympic Committee & Sports Association for the Physically Disabled

Arts & Culture

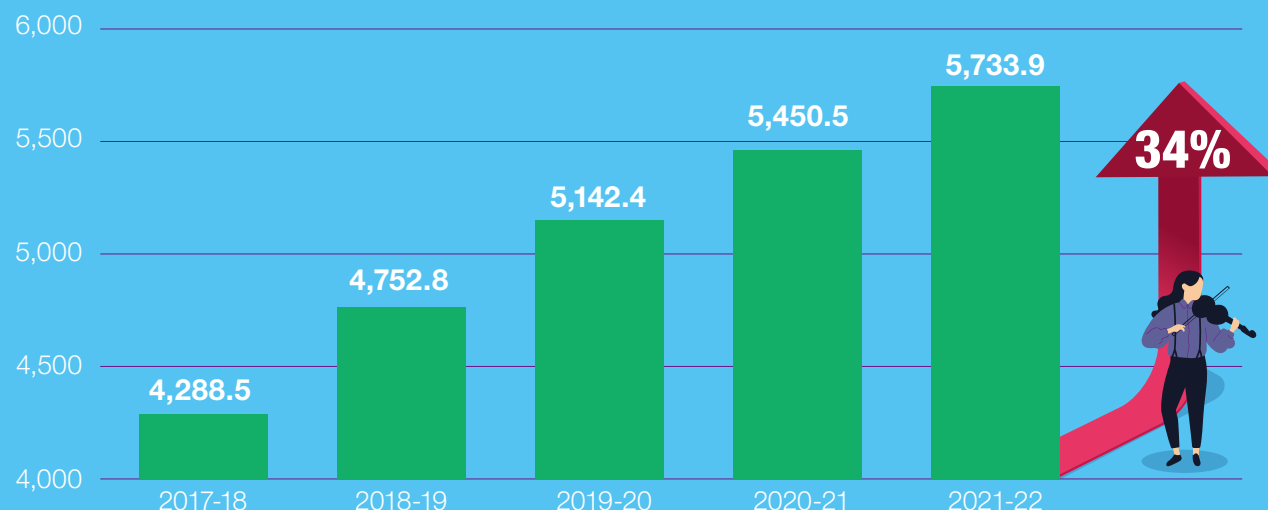
Funding Support

- **Arts and Sport Development Fund (Arts Portion):**
HK\$239 million to **235** arts projects since 2017-18
- **Arts and Culture Sector Subsidy Scheme:**
HK\$206 million to over **940** arts groups/projects,
7 900 arts practitioners and freelancers



Recurrent funding to support arts & cultural development

(HK\$M)



Achievements

Transport

Developing Transport Infrastructure

- Commissioned the Hong Kong Section of the Guangzhou-Shenzhen-Hong Kong Express Rail Link in September 2018, with daily average patronage of about 47 000 before the onset of the COVID-19 pandemic. (THB)
- Commissioned the Hong Kong-Zhuhai-Macao Bridge in October 2018, with over 80 000 cross-boundary vehicles eligible to travel on it. (THB)
- Commissioned the Central-Wan Chai Bypass and Island Eastern Corridor Link in February 2019, reducing the journey time between Central and Island Eastern Corridor in North Point to around five minutes. (THB)
- Commissioned the Tuen Mun-Chek Lap Kok Link in full in December 2020, reducing the journey time between Tuen Mun South and the Hong Kong International Airport by about 20 minutes. (THB)
- Commissioned the Heung Yuen Wai Highway in May 2019, improving traffic in the North District and providing access to the new Liantang/Heung Yuen Wai Boundary Control Point opened in August 2020. (DEVB)
- Invited MTR Corporation Limited to proceed with detailed planning and design for the Tung Chung Line Extension, Tuen Mun South Extension, Northern Link and Hung Shui Kiu Station. (THB)

- Commissioned Tuen Ma Line Phase 1 in February 2020, reducing the journey time between Tai Wai and Diamond Hill stations to nine minutes. Commissioned the remaining phase of Tuen Ma Line in June 2021, reducing the journey time between Hung Hom and Diamond Hill stations to 12 minutes. (THB)
- Commenced the “Strategic Studies on Railways and Major Roads beyond 2030” in December 2020 to ensure the layout of railway and major road infrastructure will complement or even reserve capacity to meet long-term development needs. (THB)
- Commenced preparation for the establishment of the Railways Department to strengthen the supervision of railway planning and project delivery as well as regulation of railway safety. (THB)

Improving Public Transport Services

- Disseminated real-time arrival information of all franchised buses, tramways, selected MTR lines and about 230 green minibus routes through “HKeMobility” and/or the Public Sector Information Portal. (THB)
- Commenced operation of the “Central-Hung Hom” ferry services in June 2020; and launched “water taxi” service on a trial basis in July 2021. (THB)
- Extended the Special Helping Measures to more outlying island ferry routes from April 2020 to maintain affordable fare level. (THB)
- Rolled out the Vessel Subsidy Scheme to subsidise the replacement of existing vessels of outlying island routes with greener vessels. (THB)

- Subsidised Hong Kong Tramways Limited in replacing the tram track at key bends and junctions with new technology to help absorb shock and reduce noise; and reduce the impact on traffic for future replacement works. (THB)
- Implemented relaxed new requirements on vehicle length and maximum gross weight restriction of light buses in July 2020, and allowed alternative means of emergency exits in light buses from October 2021. (THB)
- Introduced the low-floor wheelchair accessible public light bus (PLB) trial scheme in January 2018. (THB)
- Introduced the trial scheme of new long-haul bus services between Yuen Long and Causeway Bay and between Tuen Mun and Wai Chai in July 2021. (THB)
- Subsidised franchised bus companies to retrofit safety devices on existing buses. Retrofitted all seats in the upper deck of 630 buses with seat belts, and 780 buses with electronic stability control and speed limiting retarder as at early-September 2021. (THB)
- Subsidised franchised bus companies to install real-time bus arrival information display panels at bus stops. Completed the installation at around 820 bus stops. Will complete installation at about 250 remaining bus stops by end-2021. (THB)
- Pressed ahead with the Universal Accessibility Programme to proactively retrofit barrier-free access facilities (e.g. lifts) at walkways. Introduced the Special Scheme in 2019 to extend the coverage to retrofit lifts at walkways in 39 estates under the Tenants Purchase Scheme, three estates under the Buy or Rent Option Scheme and 98 public rental housing (PRH) estates with non-residential properties divested under the Hong Kong Housing Authority. As at end-August 2021, 172 items were completed, 78 items are under construction, while 159 are/will be undergoing investigation or design works by end-2021. The total expenditure of the programme since its introduction in 2012 is over \$5.3 billion. (THB)
- Promoted “Walk in HK”: completed the first batch of works between Wan Chai and Sheung Wan in June 2020; finalised the overall strategy and extended the coverage of walking route search function under “HKeMobility” to 18 districts in December 2020; commenced local consultation on the projects for provision of cover for walkways connecting to public hospitals starting from the fourth quarter of 2020. With regard to the provision of cover for walkway projects nominated by the District Councils, the first project was completed in February 2020 while 10 projects have commenced construction progressively. The remaining seven projects are under planning and design. (THB)
- Removed about 290 non-essential traffic signs in Central and Sham Shui Po pilot areas, as well as implemented a low speed limit zone at Wai Chi Street and a level run-in/out at Fuk Wing Street, Sham Shui Po in 2020. (THB)

Making Our City More Walkable

- Endorsed 12 land premium waiver applications under the policy of Facilitating Provision of Pedestrian Links by the Private Sector; refined the policy in January 2021 to expedite implementation of pedestrian links for early public enjoyment; construction of the footbridge between Pacific Place and Harcourt Garden to commence in 2021 for completion by end-2024. (DEVB)

Relieving the Burden of Public Transport Expenses

- Launched the non-means tested Public Transport Fare Subsidy Scheme in January 2019, and enhanced the Scheme with effect from 1 January 2020 by raising the subsidy rate to one-third of actual public transport expenses in excess of \$400, subject to a maximum of \$400 per month. In view of the epidemic, further relaxations made so that subsidy will be pitched at one-third of actual public transport expenses in excess of \$200, subject to a maximum of \$500 per month until 31 December 2021. Disbursed over \$6 billion between January 2019 and August 2021 with 2.3 million beneficiaries on average per month. (THB)
- Completed the review of the Fare Adjustment Arrangement for Franchised Buses. Starting from January 2019, profits exceeding the rate of return on average net fixed assets of 8.7% shall be shared on a 50:50 basis between the operator and passengers through fare concessions. (THB)
- Exempted franchised bus operators from paying tolls of government tunnels and roads with effect from 17 February 2019 to relieve fare increase pressure. (THB)
- Waived the tolls of the new Tuen Mun–Chek Lap Kok Tunnel and the Lantau Link since midnight on 27 December 2020; and waive the tolls of the new Tseung Kwan O–Lam Tin Tunnel and the Tseung Kwan O Tunnel upon commissioning of the former. (THB)

Increasing Parking Spaces

- Reviewed and updated the standards on provision of parking spaces and loading/unloading bays in housing developments for both private cars and commercial vehicles. (THB)

- Continued to take forward short-term and medium-to-long term measures to increase car parking spaces, including designating on-street locations as night-time parking spaces and providing public parking spaces at Government, Institution or Community facilities and public open space projects, etc. For the latter, around 5 100 parking spaces will be provided by batches. (THB)
- Identified seven suitable sites to take forward the automated parking system projects to provide more parking spaces. (THB)

Smart Mobility

- Installed around 1 200 traffic detectors on major roads and all strategic routes. Disseminated more real-time traffic data via the Public Sector Information Portal progressively. (THB)
- Installed by phases new on-street parking meters to support multiple payment means and provide real-time parking vacancy information. Installed around 6 400 new meters as at end-September 2021. (THB)
- Commissioned a pilot real-time adaptive traffic signal system at five road junctions starting from the fourth quarter of 2020 to help optimise the allocation of green times to vehicles and pedestrians. (THB)
- Installed smart device at 21 locations to extend the pedestrian flashing green time for the elderly and people with mobility difficulties. (THB)
- Devised a multi-modal Environmentally Friendly Linkage System for Kowloon East. (DEVB)
- Continued to develop a detailed proposal on the Electronic Road Pricing Pilot Scheme in Central taking into account the advice and suggestions from the International Expert Panel. (THB)

Pier Improvement Programme

- For the 10 piers under the first phase, commenced reconstruction for Pak Kok Pier on Lamma Island in April 2020, and improvement works for Kau Sai Village Pier in Sai Kung and Lai Chi Chong Pier in Tai Po in September 2021, while undertaking the design work of the remaining seven. Commenced the engineering feasibility studies of the second phase covering another 13 public piers progressively from May 2021. (DEVB)

Environment and Nature Conservation

Tackling Climate Change and Promoting Renewable Energy

- Completed a public engagement exercise by the Council for Sustainable Development, which submitted a report to the Government in November 2020 to facilitate the formulation of long-term decarbonisation strategy. (ENB)
- Achieved in 2019 (one year earlier than scheduled) the original five-year target of reducing electricity consumption of government buildings by 5%, with a final saving of 7.8% in 2020, thereby reducing carbon emissions by about 77 000 tonnes. (ENB)
- Moved steadily towards the target of reducing carbon intensity by 65% to 70% by 2030 as set out in the Climate Action Plan 2030+. Hong Kong's carbon intensity in 2019 was about 35% lower than that in the baseline year of 2005. (ENB)
- Committed in the 2020 Policy Address that Hong Kong would strive to achieve carbon neutrality before 2050. (ENB)
- Set up a new Steering Committee on Climate Change and Carbon Neutrality under the chairmanship of the Chief Executive to formulate the overall strategy and oversee the co-ordination of various actions. (ENB)
- Set up in December 2020 a \$200 million Green Tech Fund to support research and development projects which contribute to decarbonisation and environmental protection. Approved eight applications, involving about \$39 million. (ENB)
- Established an inter-departmental Carbon Neutrality Task Force in May 2021 to examine new technologies contributing to decarbonisation. (ENB)
- Reduced the share of coal in the fuel mix for electricity generation from about half in 2015 to less than 25% in 2020. Reduced carbon emissions by more than 7 000 kilotonnes. (ENB)
- Earmarked \$3 billion for the installation of small-scale renewable energy (RE) systems at government premises, with more than \$1.5 billion approved for about 130 projects which can generate about 21 million kWh of electricity per annum. The pilot floating photovoltaic (PV) project at Tai Lam Chung Reservoir and a pilot PV project at the South East New Territories Landfill will be commissioned by end-2021. (ENB)

- Supported the private sector in developing RE, including introducing the Feed-in Tariff (FiT) Scheme, relaxing the restrictions on installing solar energy generation systems in New Territories Exempted Houses, installing solar energy generation systems at 220 premises of schools and non-governmental organisations for free through Solar Harvest, introducing legislative amendments relevant to FiT payments, etc. Systems already approved under the FiT Scheme could generate about 220 million kWh of electricity each year, equivalent to the demand of all households in Mong Kok, Yau Ma Tei and Jordan. (ENB)
- Implemented energy saving measures, such as raising statutory building energy efficiency standards and developing district cooling systems at the Kai Tak Development, Kwu Tung North New Development Area (NDA) and Tung Chung New Town Extension (East). (ENB)
- Provided further tax incentive for energy-efficient and RE installations in buildings from 2018-19 onwards, and established the E&M InnoPortal in June 2018 to promote the use of innovation and technology in enhancing energy efficiency and developing RE. More than 130 projects matched through the E&M InnoPortal, with 31 on energy efficiency and RE, are under trial. (ENB)
- Rolled out measures under “Energy Saving Plan for Hong Kong’s Built Environment 2015~2025+” to enhance energy efficiency of buildings in Hong Kong. (ENB)
- Announced the first ever Hong Kong Roadmap on Popularisation of Electric Vehicles in March 2021 with a view to attaining zero vehicular emissions before 2050. One of the key measures includes no new registration of fuel-propelled private cars in 2035 or earlier. (ENB)
- Launched the \$2 billion “EV-charging at Home Subsidy Scheme” in October 2020 to subsidise installation of electric vehicle charging-enabling infrastructure in existing private residential buildings. Received more than 490 applications involving over 105 000 parking spaces by mid-September 2021. (ENB)
- Completed the review on the Pilot Green Transport Fund (now renamed as the New Energy Transport Fund) and extended its scope to cover Applications for Trial and Applications for Use. Extended the Fund to cover commercial motor cycles, non-road vehicles and vessels. (ENB)
- Issued technical guidelines for electric PLBs and the associated charging facilities and commenced preparation for a pilot scheme to subsidise a trial of about 40 electric PLBs and their associated charging facilities. (ENB)

Improving Air Quality

- Announced the Clean Air Plan for Hong Kong 2035 in June 2021. (ENB)
- Reduced general concentrations of four major air pollutants (PM₁₀, PM_{2.5}, SO₂ and NO₂) by 18% to 38% in the past three years. (ENB)
- Enhanced regional collaboration in stepping up marine emissions control in the Pearl River Delta region by requiring vessels to use low sulphur fuel with sulphur content not exceeding 0.5% within Hong Kong waters since January 2019. (ENB)

Promoting Electric Vehicles & Vessels

- Earmarked \$350 million to carry out a pilot trial of four electric ferries in in-harbour routes in 2023. (ENB)

- Reviewed the emission allowances of power plants and issued the Ninth Technical Memorandum for allocation of emission allowances in 2021 to tighten the emission caps from 2026 and onwards. (ENB)
- Formulated a policy to adopt green technologies to reduce the emission of air pollutants in the design and procurement of new government vessels. (ENB)
- Launched a \$7.1 billion new scheme in October 2020 to phase out about 40 000 Euro IV diesel commercial vehicles (DCVs) by end-2027 after phasing out about 80 000 pre-Euro IV DCVs under the \$11.4 billion ex-gratia payment scheme. (ENB)
- Tightened the emission standards for newly registered motorcycles to Euro IV in October 2020. (ENB)
- Tightened the emission requirements for franchised bus low emission zones to Euro V standards in end-2019. (ENB)
- Completed the trade consultation and launched in the second half of 2021 a two-month public consultation for tightening the content limits of volatile organic compounds of regulated architectural paints. (ENB)
- Extended the Cleaner Production Partnership Programme to March 2025 with funding of \$311 million. Approved \$43 million for over 250 applications since then. (ENB)
- Launched a pilot scheme to collect food waste from commercial and industrial entities and transport it to O • PARK1 for recycling from July 2018; expanded the pilot scheme in 2021 to progressively cover the domestic sector. (ENB)
- Launched a pilot scheme on waste plastic collection and recycling in Eastern District, Kwun Tong and Sha Tin in January 2020 to provide free collection from non-industrial and non-commercial sources. So far, about 440 housing estates and other premises registered, covering over half of the population in these districts. (ENB)
- Installed about 300 water dispensers at government venues for public use, with another 200 to be installed by mid-2022; launched a pilot programme to install smart water dispensers in around 100 schools. (ENB)
- Ceased to provide plastic straws and polyfoam food containers in premises serving mainly government employees in January 2019. (ENB)
- Implemented the “Plastic-free” School Lunch Pilot Scheme by subsidising around 50 schools to install refrigerators, steam cabinets, dishwashers and disinfection machines. (ENB)
- Completed the study on the control of disposable plastic tableware in April 2021; completed consultation with the trades, the public and relevant stakeholders on the phased regulation of disposable plastic tableware from July to September 2021. (ENB)

Enhancing Waste Management

- Unveiled the “Waste Blueprint for Hong Kong 2035” in February 2021 with the vision of “Waste Reduction • Resources Circulation • Zero Landfill”. (ENB)
- Enacted legislation on municipal solid waste (MSW) charging on 26 August 2021. (ENB)

- Commenced the operation of O • PARK1 and WEEE • PARK in 2018. Treated around 100 000 tonnes of food waste and over 70 000 tonnes of regulated waste electrical and electronic equipment respectively so far. Opened O • PARK1's Visitor Centre to the public since March 2021. (ENB)
- Awarded the Design-Build-Operate contract of the O • PARK2 in August 2019. O • PARK2 is expected to be commissioned in 2023 with a treatment capacity of 300 tonnes of food waste per day. (ENB)
- Operated the first "Food Waste/Sewage Sludge Anaerobic Co-digestion" trial at the Tai Po Sewage Treatment Works in May 2019 with a treatment capacity of 50 tonnes of food waste per day; commenced the preparatory work for a trial at the Sha Tin Sewage Treatment Works for commissioning by 2022 with the same treatment capacity. (ENB)
- Invited tenders in June 2021 for building a pilot plant in EcoPark for producing biochar from yard waste; commenced the operation of yard waste recycling centre, namely Y • PARK, in June 2021 to turn yard waste into different useful materials. (ENB)
- Invited open tender in April 2021 for the development of a modern pulping facility in EcoPark to turn waste paper into resources; the pulping facility is expected to commence operation by 2024. (ENB)
- Launched a waste reduction and recycling outreaching service since 2018 to provide on-site support to different types of premises and community organisations for implementing source separation and clean recycling of waste. (ENB)
- Rolled out "Reduce and Recycle 2.0" Campaign in June 2020 to promote eight types of recyclables, new community recycling network, food waste recycling, etc. (ENB)
- Provided regular funding starting from 2020-21 to engage non-profit making organisations to set up and operate community recycling facilities in 18 districts. 22 Recycling Stores and over 100 Recycling Spots have commenced operation. (ENB)
- Completed in March 2020 a consultancy study on the control of personal care and cosmetic products containing microbeads and launched a voluntary scheme in September 2021 to phase out such products through a "Bye Bye Microbeads Charter" in collaboration with the trade. (ENB)
- Consulted the public on the introduction of a producer responsibility scheme on plastic beverage containers from February to May 2021, and rolled out a pilot scheme on reverse vending machines in the first quarter of 2021 to collect used plastic beverage containers. (ENB)
- Passed the new Mercury Control Bill by the Legislative Council (LegCo) in June 2021 with the Mercury Control Ordinance coming into operation on 1 December 2021 to fully implement Hong Kong's obligations under the Minamata Convention on Mercury. (ENB)

Nature and Countryside Conservation

- Enacted the Protection of Endangered Species of Animals and Plants (Amendment) Ordinance 2018, which came into effect in May 2018 to phase out local ivory trade and increase maximum penalties on illegal trade in endangered species. (ENB)

- Designated the Southwest Lantau Marine Park in April 2020 and prepared for the designation of the proposed South Lantau Marine Park and North Lantau Marine Park. The designation of the three marine parks will increase the total protected sea area by 150% to 8 500 hectares. (ENB)
- Expanded the Sham Wan Restricted Area on Lamma Island and extended the restricted period since 1 April 2021 to enhance conservation of the breeding ground of green turtles. (ENB)
- Established a Clean Shorelines Liaison Platform to co-ordinate and promote shorelines cleanup actions, with support provided to over 1 600 activities involving about 20 000 volunteers. (ENB)
- Implemented the Hong Kong Biodiversity Strategy and Action Plan 2016-2021 for conservation of local biodiversity and sustainable development, as well as raising public awareness of nature conservation. (ENB)
- Established the Countryside Conservation Office in July 2018 and launched the Countryside Conservation Funding Scheme in October 2019, with \$140 million approved for carrying out 27 projects. (ENB)
- Set up an interdepartmental taskforce by the Countryside Conservation Office to review the existing licensing requirements and procedures for relevant guesthouses and catering businesses in countryside. (ENB)
- Organised programmes to commemorate the 40th anniversary of country parks under the theme of “Country Parks Our Legacy” for public enjoyment and promotion of nature conservation. (ENB)

- Completed the consultancy study on enhancement of the recreation and education potential of country parks and special areas in 2019, and implemented enhancements such as new viewing platforms and water filling stations. (ENB)
- Installed artificial intelligence surveillance system at the Pat Heung Fire Lookout to collect and analyse hill fire images to strengthen monitoring of hill fire. (ENB)

Regional Co-operation

- Pressed ahead with the ecological civilisation construction in the Guangdong-Hong Kong-Macao Greater Bay Area (GBA) in accordance with the strategic policy of the Outline Development Plan for the GBA. (ENB)

Conserving Water

- Implemented water saving measures, including requiring the use of water efficient products registered under the Water Efficiency Labelling Scheme (WELS) in new plumbing works; prepared legislative amendments for implementing the Mandatory WELS; arranged implementation of Automatic Meter Reading in about 170 new buildings, involving some 50 000 smart water meters; and launched a certificate course in leakage detection in underground water pipes. (DEVB)
- Updated in August 2019 the Total Water Management Strategy, which adopts a two-pronged approach of containing fresh water demand growth and building resilience in water supply with diversified water resources. (DEVB)
- Explored measures to deal with the leakage problem at private water mains and conducted the public consultation on a proposal to impose a charge for water loss through the communal service. (DEVB)

- Implemented measures for reducing fresh water consumption to achieve the target of reducing the per capita fresh water consumption by 10% by 2030, using 2016 as the base year. (DEVB)
- Implemented asset management and stepped up leakage control measures for public water mains, with a target to reduce the leakage rate from the current 15% to below 10% on or before 2030. (DEVB)

Alleviating Noise Impact

- Compiled a professional practice note on application of innovative acoustic window designs in residential developments to effectively reduce traffic noise while maintaining ventilation. Conducted seminars and webinars to promote such measures to over 1 000 professionals. (ENB)
- Resurfaced 27 local road sections with low noise road surfacing for trial, benefiting 12 000 residents. (ENB)

External Lighting

- Implemented the Charter on External Lighting with about 4 800 participants. Appointed a Working Group on External Lighting to review the effectiveness of the Charter and measures. (ENB)

Enhancing Water Quality

- Completed upgrading two existing sewage treatment works and extension of sewerage system to 46 village areas, and rolled out 33 sewerage projects worth \$39.6 billion. (ENB)

- Implemented measures to tackle the odour and aesthetic problem along the coastal areas of Victoria Harbour, including planning of newly designed dry weather flow interceptors, rehabilitation of aged sewers and application of odour-control hydrogel at stormwater outfall locations. (ENB)
- Maintained the overall compliance rate of Water Quality Objectives for the Victoria Harbour Water Control Zone at 90% or above. (ENB)

Urban Forestry

- Established the dedicated Tree Risk Inspection Squad to strengthen tree audits and site patrol; and hosted the International Urban Forestry Conference in January 2020. (DEVB)
- Rolled out the Registration Scheme for Tree Management Personnel in December 2020. (DEVB)
- Launched the Urban Forestry Support Fund under which the Study Sponsorship Scheme and the Trainee Programme were rolled out in July and August 2020 respectively, and launched the “People • Trees • Harmony” promotion campaign. (DEVB)
- Commenced a three-year study to collect and analyse data from 8 000 tilt sensors to test their effectiveness in identifying trees at risk of collapse in August 2021. (DEVB)

Heritage Conservation

- Revitalised the Central Police Station Compound to become Tai Kwun – Centre for Heritage and Arts, which received the Award of Excellence in the United Nations Educational, Scientific and Cultural Organization (UNESCO) Asia-Pacific Awards for Cultural Heritage Conservation. (DEVB)

- Completed 12 projects under the Revitalising Historic Buildings Through Partnership Scheme, attracting over seven million visitors as at August 2021 and receiving five UNESCO Asia-Pacific Awards for Cultural Heritage Conservation. Took forward Batch VI of the Scheme, with 72 applications received in respect of five historic buildings. (DEVB)
- Pressed ahead with the Conserving Central initiative with the restoration of the Former French Mission Building substantially completed in end-2020 and the first phase opening of the revitalised Central Market Building in August 2021. (DEVB)
- Organised “Heritage Vogue • Hollywood Road” street carnival in July 2017 and November 2018, attracting over 56 000 and 76 000 visitors respectively. (DEVB)

City Management

Management of Public Works

- Established the Centre of Excellence for Major Project Leaders in July 2019 and delivered the first Major Projects Leadership Programme in August 2019. (DEVB)
- Signed Memorandum of Understanding with the Infrastructure and Projects Authority of the United Kingdom Government and the Ministry of Finance of the Singapore Government in March 2018 and July 2019 respectively to foster partnership for enhancing cost effectiveness and productivity of the construction industry and uplifting project governance and performance. (DEVB)

Building and Fire Safety

- Launched “Operation Building Bright 2.0” in 2018 with two funding injections totalling \$6 billion to assist owner-occupiers of 5 000 buildings to conduct inspection and repair works. Selected around 2 100 buildings to participate in the scheme as at August 2021. Approved around \$143 million for around 430 buildings. (DEVB)
- Launched “Fire Safety Improvement Works Subsidy Scheme” in 2018 and injected an additional \$3.5 billion into the Scheme. Around 3 300 buildings participated in the scheme as at end-August 2021. (SB)
- Enacted the Fire Safety (Industrial Buildings) Ordinance (Cap. 636), which came into effect on 19 June 2020, to enhance fire safety standards of about 1 100 old industrial buildings (IB). (SB)
- Extended the permitted uses of the buffer floor in IBs to cover telecommunications exchange centre and computer/data processing centre in 2019. If there is a buffer floor in an IB, the lowest three floors can be changed to non-industrial uses. (DEVB, SB)
- Launched in July 2020 the Building Maintenance Grant Scheme for Needy Owners. Over 3 000 cases were approved as at August 2021. (DEVB)
- Launched the \$2.5 billion Lift Modernisation Subsidy Scheme in 2019 and subsequently injected an additional \$2 billion to increase the number of lifts to be subsidised to about 8 000. Commenced arrangement for modernisation works of about 2 000 lifts as at end-August 2021. (DEVB)

- Launched the \$1 billion Building Drainage System Repair Subsidy Scheme in May 2021. Commenced drainage investigation or repair works for some 100 aged domestic buildings as at August 2021. (DEVB)
- Deployed new technologies on a pilot basis to regulate signboards. Information of the first batch of lawful signboards will be made available for public inspection on the GeoInfo Map, and the Defective Signboards Diagnostic System will be put into pilot use. (DEVB)
- set up the Drinking Water Safety Unit in November 2018 to oversee the performance of the Water Supplies Department (WSD) in respect of drinking water safety;
- set up the Drinking Water Safety Advisory Committee in January 2018; and
- launched the \$440 million Water Safety Plan Subsidy Scheme in July 2020 to subsidise private buildings to implement WSP. Received about 240 applications, covering about 580 eligible buildings as at end-August 2021. (DEVB)

Drinking Water Safety

- Implemented the Action Plan for Enhancing Drinking Water Safety in September 2017. Progress of various measures:
 - revised the Hong Kong Drinking Water Standards in April 2021, and expanded the scope of the Enhanced Water Quality Monitoring Programme in May 2021 to cover residual chlorine and *Escherichia coli*;
 - implemented a surveillance programme for General Acceptance products in October 2017;
 - implemented new commissioning requirements for new plumbing works since 2017 to ensure the quality of drinking water;
 - launched the Quality Water Supply Scheme for Buildings – Fresh Water (Management System) in November 2017 to encourage property owners and management agents to implement Water Safety Plan (WSP) for their buildings. Received applications from about 2 600 residential buildings, covering some 774 000 households as at end-August 2021;
- Completed the review of the Waterworks Ordinance (Cap. 102) and conducted a public consultation, with a view to introducing the amendment bill to the LegCo by end-2022. (DEVB)
- Launched in December 2020 the Water Suspension Notification System, which will automatically notify the management office of the estates concerned the water suspension arrangement by WSD. Currently, it covers about 70% of the registered consumers. (DEVB)

Building Management

- Promulgated New Codes of Practice and launched new support measures, including the regularised Building Management Dispute Resolution Service, Central Platform on Building Management, Pilot Scheme on Free Outreach Legal Advice Service on Building Management and the regularised Owners' Corporations Advisory Services Scheme, to assist owners in discharging their building management responsibilities. (HAB)

Property Management

- Issued more than 4 300 licences since the commencement of the licensing regime under the Property Management Services Ordinance (Cap. 626) in August 2020 to raise the professional standards of the property management services. The licensing regime will be fully in force after a three-year transitional period, which will benefit the residents and users of more than 40 000 private buildings. (HAB)

Providing Quality Open Space

- Launched the five-year plan to transform more than 170 public play spaces in 2019. 17 projects were launched in 2020-21 with one commenced construction in end-March 2021. 26 projects will be launched in 2021-22. (HAB)
- Earmarked \$6.5 billion to connect the harbourfront promenade and optimise the open space. In the past four years, opened six km of promenade for public use. The goal is to extend the promenade from the current 24 km to 34 km by 2028 and provide open space amounting to about 35 hectares on both sides of Victoria Harbour. Between October 2020 and September 2021, opened 11 harbourfront sites. (DEVB)
- Completed and fully opened the 60 km long cycle track network in the New Territories from Tuen Mun to Ma On Shan for public use in September 2020. (DEVB)
- Completed and fully opened the 2.3 km long waterfront cycle track section between Tsuen Wan Riviera Park and Bayview Garden for public use in July 2021. (DEVB)

- Fostered a “bicycle-friendly” environment in new towns and NDAs and completed the first phase of improvement to cycle tracks and parking facilities at about 100 sites in new towns in mid-2018. (DEVB, THB)
- Implemented progressively a GreenWay of 13 km in total length for shared use by pedestrians and cyclists in the Kai Tak Development Area, and launched in February 2021 a study on its design and implementation. (DEVB)
- Continued to carry out investigation study for the revitalisation and improvement works of the Tai Wai Nullah and Fo Tan Nullah as well as detailed design for the revitalisation and improvement works for the Yuen Long Town Centre Nullah. (DEVB)

Energizing Kowloon East

- Enhanced the connectivity, improved the environment and released development potential to expedite the transformation of Kowloon East into the second core business district. Completed more than 20 traffic and pedestrian environment improvement schemes, and provided or enhanced over eight hectares of open spaces and public spaces in Kowloon East since July 2017. (DEVB)
- Carried out detailed design for a new footbridge across Kwun Tong Road near MTR Kowloon Bay Station Exit A and another footbridge across Wai Yip Street near Siu Yip Street. Continued the investigation and design for the extension and face-lifting of the pedestrian subway network connecting to MTR Ngau Tau Kok Station. (DEVB)

- Continued the construction of the footbridge near Exit B of MTR Kowloon Bay Station. Commenced investigation and design of a proposed elevated walkway with travellators along Sheung Yee Road. (DEVB)
- Continued improvement works at Hoi Bun Road Park and its adjacent area, with works at Hoi Bun Road Park completed in June 2021. Continued improvement works at Lam Wah Street Playground and its adjacent area, with the pedestrian walkway between Wang Chiu Road and Wang Kwun Road substantially completed in June 2021. (DEVB)
- Continued to implement the District Open Space, Sports Centre cum Public Vehicle Park project at Sze Mei Street, San Po Kong including reprovisioning of the Kai Tak East Sports Centre and provision of 300 underground parking spaces. (DEVB)
- Completed detailed design and selection of play equipment for Kai Tak Runway Park. Commenced works on the zipline and play tower in May 2021. (DEVB)
- Commenced “Revitalization of Tsui Ping River” project in July 2020 for completion in 2024. (DEVB)

Invigorating Island South

- Established the Invigorating Island South Office in February 2021 and started consulting stakeholders and co-ordinating with relevant bureaux and departments to take forward the initiative. A Conceptual Master Plan covering the Wong Chuk Hang, Aberdeen and Ap Lei Chau areas was promulgated in August 2021. (DEVB)
- Launched a design competition in September 2021 to collect innovative design ideas for creating a Green Link in Wong Chuk Hang. (DEVB)

- Continued to plan face-lifting of public spaces in the abovementioned areas, together with improvement of the walking environment and connectivity. Related minor works projects have commenced progressively from mid-2021 onwards. (DEVB)

Arts and Culture

- Increased funding for arts and culture by 34% from about \$4.28 billion in 2017-18 to about \$5.73 billion in 2021-22. (HAB)
- Set aside \$20 billion to improve and develop cultural facilities to consolidate Hong Kong’s position as an international cultural metropolis. (HAB)
- Commenced the pre-construction activities for the Heritage Conservation and Resource Centre and the expansion of Hong Kong Science Museum and Hong Kong Museum of History. (HAB)
- Took forward pre-construction work for the New Territories East Cultural Centre, which is expected to be completed in 2022. (HAB)
- Opened the new Earth Science Gallery of the Hong Kong Science Museum and the permanent exhibition on popular culture of the Hong Kong Heritage Museum for public visit. The renewal of permanent exhibitions of the Hong Kong Science Museum and Hong Kong Museum of History is in progress. (HAB)
- Re-opened the renovated Hong Kong Museum of Art with an increase in total exhibition area by about 40% and increased the number of galleries from 7 to 12. (HAB)
- Commissioned the Xiqu Centre and Freespace in West Kowloon Cultural District (WKCD). (HAB)

- Pressed ahead with the M+ and Hong Kong Palace Museum in the WKCD with scheduled commissioning in November 2021 and mid-2022 respectively. The East Kowloon Cultural Centre will be opening by phases in 2023. (HAB)
- Set up the Task Force on Arts Technology in February 2021 to formulate strategies and measures for the development and promotion of arts technology. Earmarked \$100 million from funds and schemes under relevant bureaux with venues being upgraded to provide matching hardware. (HAB)
- Supported over 1 100 performing arts practitioners to participate in more than 110 performances and cultural exchange activities in seven GBA cities, attracting over 60 000 audience. (HAB)
- Organised Hong Kong Week in the Mainland and overseas, with the first Hong Kong Week completed in Shanghai in November 2019. Held the second Hong Kong Week in the Mainland in Guangzhou from April to May 2021. (HAB)
- Launched two rounds of applications for the Community-driven Projects and Partnership Projects under the Intangible Cultural Heritage Funding Scheme. (HAB)
- Launched the LCSD Edutainment Channel, a one-stop online platform, in December 2020 and together with the 101 Academy, to promote recreation, sports, culture and arts in a more effective manner. (HAB)
- Strengthened funding support for 60 national sports associations (NSAs) by progressively increasing their annual subvention from about \$300 million in 2019-20 to over \$500 million by 2023-24. (HAB)
- Established a full-time training system at the Hong Kong Sports Institute to support the development of elite disability sports. (HAB)
- Launched the Opening up School Facilities for Promotion of Sports Development Scheme in the 2017/18 school year. Organised more than 490 sports programmes with over 12 000 attendances since its launch. (EDB, HAB)
- Launched the Five-Year Plan for Sports and Recreation Facilities in 2017. Approved 20 projects, providing heated swimming pools, football pitches, tennis courts, basketball courts, etc. for community use. (HAB)
- Provided extra funding under a five-year programme to Hong Kong representative teams in eight team sports featuring in the Asian Games so as to support long-term training and improve their performance. (HAB)
- Launched the \$500 million “Major Sports Events Matching Grant Scheme” in 2019 to encourage the business and private sector to provide sponsorships to NSAs in hosting more new and high level sports events. Recognised 15 major sports events as “M” Mark events in 2019, including three new “M” Mark events. Given the gradually improving epidemic situation since early 2021, the NSAs are progressively resuming some major sports events, including the 2021 Tissot UCI Track Cycling Nations Cup Hong Kong, China held in May 2021. (HAB)

Sports Development

- Pressed ahead with Kai Tak Sports Park with scheduled completion in the second half of 2023. (HAB)

- Launched the Territory-wide Physical Fitness Survey for the Community in 2021 to collect updated data on the physical condition of the public, which would facilitate the formulation of appropriate measures in promoting sports and healthy living. (HAB)

Municipal Services

- Completed five new public columbaria since 2019, providing around 210 000 public niches. (FHB)
- Completed consultation with nine District Councils on 14 projects (providing around 600 000 public niches) under the district-based columbarium development scheme. (FHB)
- Launched the Green Burial Central Register in 2019. The number of people who opted for green burial increased to 15.7% of death toll. The Tsang Tsui Garden of Remembrance in Tuen Mun is the latest green burial facility which was commissioned in March 2021. (FHB)
- Commissioned in 2020 the Skylight Market (previously known as Tin Shui Wai temporary market) that was constructed with Modular Integrated Construction (MiC) technology and has adopted a new management model on a pilot basis. (FHB)
- Announced the sites selected for the new public markets in Tseung Kwan O and Kwu Tung North NDA in May and November 2020 respectively and conducted district consultation. Preliminary design is underway for the two new markets. (FHB)
- Obtained funding approval from the LegCo for the overhaul of the Aberdeen Market in March 2021. Works commenced in August 2021 for completion within 2022. (FHB)
- Commenced construction of the Tung Chung temporary market in August 2021, using the MiC method. (FHB)
- Implemented in 2019 a guideline on incorporating rodent proofing design in new private buildings and carrying out rodent control work in construction and demolition sites, as well as a similar design guide on government works and buildings. (FHB)
- Set up a joint working group by Food and Environmental Hygiene Department and Housing Department to formulate and implement more effective rodent prevention and control measures and provide relevant facilities in PRH estates. (FHB)
- Conducted field trials on thermal imaging cameras with artificial intelligence analytical function since the first half of 2020 to track the locations and time of rodent activities, as well as to assess the effectiveness of anti-rodent operations quantitatively. (FHB)
- Implemented the Enhanced Public Toilet Refurbishment Programme since 2019-20, with a target of rolling out refurbishment or face-lifting works for about 240 public toilets in five years. Completed the works for 49 public toilets as at August 2021. (FHB)
- Applied anti-microbial coating at about 270 public toilets with high utilisation rates since August 2020. (FHB)
- Put on trial a prototype of a smart toilet system at two public toilets since May 2021 for real-time data monitoring and collection of users' views, so as to better utilise resources and enhance public toilet service; and started a project to link up 10 public toilets with the Government Wide IoT Network to collect data on the usage of their facilities in August 2021. (FHB)

Animal Welfare

- Completed the first election of the Veterinary Surgeons Board of Hong Kong in September 2020, and the newly constituted Board came into operation in October 2020. (FHB)
- Provided funding through the University Grants Committee since the 2019/20 academic year to the Jockey Club College of Veterinary Medicine and Life Sciences at City University of Hong Kong for the city's first ever publicly funded undergraduate programme in veterinary medicine. (EDB)
- Amended the Road Traffic Ordinance (Cap. 374) in April 2021 to require drivers to stop the vehicle if they hit a cat or dog. The new requirement will come into effect in November 2021. (FHB)
- Regularised six "Inclusive Parks for Pets" under the trial scheme and provided another 35 "Inclusive Parks for Pets" in various districts starting from February 2021. (HAB)

New Initiatives

Transport

Making Our City More Walkable

- Develop design standards for pedestrian wayfinding signage system and install new wayfinding signages at suitable locations in the Central and Western District, Sham Shui Po and Tsim Sha Tsui in phases starting from end-2022. (THB)
- Apply a new comprehensive pedestrian planning framework in planning and design of NDAs where appropriate. (DEVB, THB)

Environment and Nature Conservation

Tackling Climate Change and Achieving Carbon Neutrality

- Set out in the “Hong Kong’s Climate Action Plan 2050” the targets to achieve net-zero carbon emissions for electricity generation, electrify the transportation, and provide adequate waste-to-energy-facilities before 2050. Conduct five-yearly reviews with a view to reducing total carbon emissions by half before 2035 (as compared to the 2005 level) and achieving carbon neutrality before 2050. (ENB)
- Take forward mitigation and adaptation measures for tackling climate change with a rough estimate of \$240 billion in the next 15 to 20 years. (ENB, DEVB)
- Set up the Office of Climate Change and Carbon Neutrality to strengthen liaison and co-ordination in relation to the Government’s policy initiatives on climate change and carbon neutrality, focusing on the promotion of deep decarbonisation. (ENB)

- Promote adoption of RE in public and private projects as well as through regional co-operation, with a view to increasing its share in the fuel mix to 7.5–10% by 2035 and to 15% gradually thereafter. (ENB)
- Explore adoption of zero-carbon new energy for both power generation and transport. (ENB)
- Improve the energy efficiency of buildings and promote energy-saving style of living with a view to reducing by 2050 the respective electricity consumption of commercial buildings and residential buildings by 30% to 40% and by 20% to 30% (using the operational conditions of 2015 as the comparison basis) and achieve half of the above targets by 2035. (ENB)
- Accord suitable priority to public works projects that can make significant contribution to achieving the carbon neutrality target before 2050. (FSTB)
- Consult the relevant trades on progressively phasing down the use of hydrofluorocarbons to combat climate change and fulfill HKSAR’s international obligations under the “Montreal Protocol on Substances that Deplete the Ozone Layer”, and prepare for the necessary work on legislative amendments. (ENB)
- Consider internal re-organisation of the Environment Bureau and the Environmental Protection Department (EPD) to strengthen climate change actions, waste reduction, resources recycling and various environment-related tasks. (ENB)

Promoting Electric Vehicles

- Implement the measures in the “Hong Kong Roadmap on Popularisation of Electric Vehicles” which was announced in early 2021, including cessation of new registration of fuel-propelled private cars including hybrid vehicles in 2035 or earlier, and expanding the electric vehicle charging network. (ENB)
- Promote the development of electric and new energy public transport and commercial vehicles, including working with franchised bus companies to use hydrogen fuel cell buses on a pilot basis, with a view to formulating a detailed roadmap and timetable for the use of new energy public transport in 2025. (ENB)
- Prepare for a trial scheme of electric taxis to subsidise the taxi trade to test the operation and business mode. (ENB)
- Develop a mobile application to facilitate drivers of electric vehicles to identify available public chargers. To expand the coverage of the application, private organisations will also be invited to provide the availability of their chargers on the same platform. (ENB)

Enhancing Air Quality

- Develop a smart air quality monitoring system with the integration of monitoring stations, sensors, the Internet of Things, artificial intelligence, and numerical models so as to provide more detailed district-based air quality information to the public. (ENB)
- Embark on a new round of review of the Air Quality Objectives to continuously enhance air quality, protect public health and assist in achieving the goal of carbon neutrality. (ENB)

Enhancing Waste Management

- Prepare for the implementation of MSW charging and roll out more community participation programmes and trial projects for different stakeholders to gradually adapt to the mode of waste reduction, recycling and disposal after the implementation of MSW charging. (ENB)
- Strengthen support for community recycling, increase the number of collection points and enhance the efficiency of services of the community recycling network, and make good use of smart technologies, such as doubling the number of machines from 60 to 120 under the enhanced Reverse Vending Machine Pilot Scheme in 2022 to support recovery of plastic beverage containers, and expanding the use of smart recycling facilities by increasing the number of collection points from a pilot of 4 to 80 to collect different recyclables. (ENB)
- Expand on a pilot basis the central collection services for waste plastics and food waste to improve territorial coverage and service targets. (ENB)
- Explore taking over the management of refuse collection points and household refuse collection service by EPD from the Food and Environmental Hygiene Department, and combining the service with the collection and delivery of appropriate recyclables to create synergy. (ENB)
- Prepare legislation for introducing a new producer responsibility scheme on plastic beverage containers and regulating disposable plastic tableware. (ENB)

Smart City

Smart Mobility

- Issue toll tags to vehicle owners in mid-2022, with a view to facilitating the implementation of Free-Flow Tolling System at government tolled tunnels and Tsing Sha Control Area progressively starting from end-2022. (THB)
- Submit a bill in the next term of the LegCo to establish a new regulatory framework for autonomous vehicles to enable wider and more flexible trial and use. (THB)
- Commission the automated parking system projects in Tsuen Wan and Tai Po in 2021 and 2022 respectively. (THB)

Smart Enforcement

- Introduce more smart elements and expand their scope of application in correctional institutions to enhance the effectiveness of institutional management and rehabilitation. (SB)
- Make use of technologies including unmanned aircraft system in search and rescue operations, and online platform to provide information and educate the public on the use of automated external defibrillator. (SB)
- Integrate more smart elements into such areas as customs clearance, contraband detection, intelligence gathering and case investigation, and introduce artificial intelligence and big data analytics equipment and systems progressively. (SB)
- Introduce new means of immigration clearance and visa processing to streamline procedures and reduce waiting time. (SB)

- Expand the e-Ticketing Pilot Scheme, launch the “self-service kiosk” for lost property on a trial basis, and expand the online service of application for licences and permits. (SB)
- Use big data to enhance aviation safety, as well as training and operational efficiency. (SB)

Urban Forestry

- Organise arboricultural courses for personnel registered under the Registration Scheme for Tree Management Personnel to continue their professional development and meet the renewal requirements. (DEVB)
- Launch a webpage to promote public appreciation and knowledge on landscape design features of local green spaces. (DEVB)

City Management

Urban Renewal

- Step up urban renewal by devising the implementation details of new planning tools proposed in Urban Renewal Authority (URA)’s District Study for Yau Ma Tei and Mong Kok such as transfer of plot ratio for early implementation in the two districts and where appropriate, to other districts. (DEVB)
- Invite the URA to commence district planning studies in Tsuen Wan Town Centre and Sham Shui Po with a view to formulating urban renewal plans to guide urban restructuring and promote redevelopment. (DEVB)
- Review the compulsory sale application threshold for old and dilapidated buildings with a view to expediting urban renewal. (DEVB)

- Consult the public on legislative amendments to empower the Fire Services Department and the Buildings Department to carry out fire safety improvement works for owners of old composite and domestic buildings who have failed to comply with the requirement of the relevant ordinance, and to recover the related fees from owners afterwards. (DEVB, SB)

Harbourfront Enhancement

- Examine the scope for improving the Protection of the Harbour Ordinance (Cap. 531) to facilitate particularly the carrying out of works for improving connectivity or enhancing harbourfront areas for public enjoyment. (DEVB)
- Progressively open three new promenades, namely the Pierside Precinct (Phase 2), Water Sports and Recreation Precinct (Phase 2) and Revitalised Typhoon Shelter Precinct, from end-2021 to mid-2022, in order to realise the vision to extend the promenade along the Victoria Harbour to 34 km in 2028. In addition, the first promenade section at the Kai Tak former runway implemented as Public Open Space in Private Development is expected to be completed in 2022. (DEVB)
- Actively implement at more harbourfront sites the open management approach successfully adopted in the “Harbourfront Shared Space” in Western District and Wan Chai. To help members of the public better understand this new management mode, we will step up our promotion and publicity efforts. (DEVB)
- Adopt water-friendly “harbour steps”, i.e. a fence-free stepped down water edges design at the Water Sports and Recreation Precinct (Phase 2) as well as the Revitalised Typhoon Shelter Precinct to bring people closer to the water and facilitate the organisation of water sports activities at the Water Sports and Recreation Precinct. (DEVB)

Energizing Kowloon East

- Conduct a comprehensive pedestrian environment improvement review on the betterment of walkability and connectivity in Kowloon East and the San Po Kong Business Area to complement the ongoing transformation of Kowloon East into a well-connected and pedestrian-friendly core business district. (DEVB)
- Carry out a study riding on the theme of “The Spirit of Creation” to review the industrial culture in Kowloon East and the San Po Kong Business Area for branding and promoting the characteristics of the district, as well as inheriting its industrial culture quality and creative spirit by urban design interventions in the process of Kowloon East’s transformation into a core business district. (DEVB)

Invigorating Island South

- Promulgate Invigorating Island South Conceptual Master Plan 2.0 covering the Wong Chuk Hang, Aberdeen and Ap Lei Chau areas in 2022, after engaging stakeholders and incorporating their comments. Take forward various quick-win measures on enhancing connectivity as well as improving leisure facilities on the waterfront in tandem to bringing early improvements. (DEVB)

- Commence a study within 2021 to formulate comprehensive proposals for pedestrian environment and traffic improvements to bring vibrancy to the abovementioned areas. (DEVB)
- Commence construction works on a “Green Link” in Wong Chuk Hang in 2022 to link up MTR Wong Chuk Hang Station and Aberdeen Country Park through a series of attractive sitting-out areas and pedestrian facilities. (DEVB)
- Take forward the future strategy of the Ocean Park, including identifying partners by the Ocean Park Corporation for the future operation of the Park, and commencing technical studies for the pier projects at Deep Water Bay and Tai Shue Wan in 2022, while examining the feasibility of providing temporary landing facilities prior to the completion of the pier projects. (CEDB)
- Award the contract to design, construct and operate a water sports complex at the rehabilitated Shek O Quarry Site for the general public in the first quarter of 2022, including providing windsurfing facilities for elite training for the exclusive use of the Hong Kong Sports Institute. The water sports complex is expected to be in full operation in about five years. (PICO/CSO, HAB)
- Formulate proposals for the revitalisation of Staunton Creek Nullah into a river with environmental and landscape upgrading, integrating with adjoining public spaces to create a more pleasant walking environment. (DEVB)
- Study the technical feasibility of redevelopment and consolidation of the existing recreation ground, sports ground, sports centre and swimming pool facilities in Wong Chuk Hang, incorporating public vehicle park and other facilities to promote “single site, multiple use”. (DEVB, HAB)
- Formulate preliminary proposals for a planned open space site adjoining Ap Lei Chau Park to provide more leisure facilities for public enjoyment and create a more vibrant waterfront. (DEVB)
- Commence an investigation and design study on the expansion of Aberdeen Typhoon Shelter in 2022 to provide more vessel berthing area. (DEVB)

3D Digital Underground Utilities Database

- Develop an accurate 3D digital underground utilities database with a view to facilitating the construction industry to plan and conduct the underground works efficiently and reducing road closure time resulting from the excavation works, thereby benefiting the community as a whole. The database is expected to be progressively established in 2023. (DEVB)

Smart Waterworks

- Adopt innovative technologies proactively for waterworks management and maintenance. Measures include developing “digital twins” of major water treatment works and appropriate water supply networks for real-time monitoring and scenario simulation to enhance operation performance and reliability and exploring application of robotics, artificial intelligence, etc. for inspection and maintenance of waterworks. (DEVB)
- Develop electronic platforms to facilitate processing of service requests from the public and water supply applications from the trade, and adopt more innovative technologies such as artificial intelligence and smart data analytics in further improving customer service. (DEVB)

Arts and Culture

- Set up an Activity Centre for the Promotion of Chinese History and Culture under the Leisure and Cultural Services Department and organise activities through the artefacts collected locally by the Hong Kong Museum of History to enhance the public's knowledge of Hong Kong's past in the context of Chinese history and traditional culture. The Centre will also serve as an alternative extra-curricular learning platform for students to nurture their interest in research on Chinese history and culture as well as their manifestation in Hong Kong, and related conservation work. (HAB)

Sports Development

Elite Sports

- Expedite the construction of the new facilities building of the Hong Kong Sports Institute for completion in mid-2024 and finance jointly with the Hong Kong Jockey Club Charities Trust the setting up of a \$300 million funding scheme to enhance athletes' performance through research in sports science and sports medicine, and improvement of athletes' gear. (HAB)
- Allocate more resources for expanding the Retired Athletes Transformation Programme. The target is to double the number of retired athletes, currently around 70, joining the Programme within five years, and provide retired athletes with more opportunities for career transformation. (HAB)

Sports Development in Schools

- Explore ways to improve physical fitness of students and enhance their participation in physical activities through the school curriculum and extra-curricular activities, so as to lay a good foundation for students in sports and healthy lifestyle from an early age, and provide them with more opportunities to take part in different kinds of sports activities and competitions. (HAB, EDB)

Enhancement of Professionalism and Development of the Sports Industry

- Explore ways to encourage enhanced professionalism in sports, raise the sports standard and enhance participation. A working group will be formed to discuss with the business and sports sectors on development of the sports industry in Hong Kong and the relevant manpower needs. (HAB)

Hosting the 15th National Games in 2025

- Host the 15th National Games in 2025 with Guangdong and Macao and work closely with relevant ministries of the Central Government, the Guangdong Provincial Government and the Macao SAR Government on preparatory work and follow the Central Authorities' requirement of "simple, safe and wonderful" in conducting the Games. (HAB)

Maintaining Hong Kong as a Centre for Major International Sports Events

- Promote Hong Kong's image as an international sports events capital whilst putting in place "safety bubble" with all necessary epidemic prevention measures. (HAB)

Edutainment Channel

- Enrich the Edutainment Channel by extending the Sports 101 series to cover most common sports as well as new sports after the successful launch of 17 episodes. The new episodes will cover at least 40 more sports. Besides, the Channel will include Events' Highlights of the Tokyo Olympic Games 2020. (HAB)

Municipal Services

Public Markets

- Complete within 2022 an overhaul of the Aberdeen Market under the Market Modernisation Programme to improve the operating and shopping environment of the market. (FHB)
- Conduct a further technical feasibility study for the commercial building development project at Tung Chung Town Centre Area 6 (including the new permanent market portion) to ensure that the development project will not affect the safe operation of the MTR. In the meantime, commission a temporary market in Tung Chung by end-2022. (FHB)
- Seek funding approval for constructing a permanent market in Tin Shui Wai from the LegCo in 2022 with a view to completing the construction in the first half of 2027. (FHB)
- Conduct preliminary planning for new market projects in Tung Chung New Town Extension and Hung Shui Kiu/Ha Tsuen NDA. (FHB)

Food Safety

- Review existing food safety legislation relating to veterinary drug residues to enhance local food safety and further protect public health through revising relevant stipulations and regularly updating individual food safety standards. (FHB)

- Review the existing regulatory arrangement on composition, and nutrition and health claims for formula products for infants and young children with reference to the latest international development to formulate legislative proposals with a view to further protecting the health of infants and young children and supporting breastfeeding. (FHB)

More Efficient Emergency Service

- Commence full operation of the Government Flying Service (GFS) Kai Tak Division in the fourth quarter of 2021 to provide emergency services to the public round the clock. Being located in the urban area, a 10-minute flight distance from the Kai Tak Division would cover most of the search and rescue hotspots and thus enhancing the efficiency of emergency services. (SB)
- Set up a Flight Simulator Training Centre at the GFS Headquarters, which is expected to commence operation in the fourth quarter of 2022, to enhance the training efficiency and technical competency of GFS helicopter pilots. (SB)
- Use new equipment and corresponding computer analysis software, including the operation and application of large-scale unmanned aircraft systems with heat detectors by the Fire Services Department to enhance the efficiency of search and rescue operations in the countryside. (SB)
- Explore a mobile application equipped with the global positioning system to help frontline rescue personnel record and track their search routes in real time by the Civil Aid Service. (SB)

- Use virtual reality training system to simulate Hong Kong's mountainous terrain and computer simulation medical training device to simulate the conditions of the injured patients and improve the handling capacity of emergency pre-hospital care by GFS. (SB)

Updating the Regulatory Regime of Dangerous Goods

- Enhance public education and maintain close liaison with the relevant trades to facilitate the community to adapt to a new regulatory regime under the amended Dangerous Goods Ordinance (Cap. 295) and its revamped subsidiary legislation which will come into operation in the first quarter of 2022. (SB)

Animal Welfare

- Amend the Prevention of Cruelty to Animals Ordinance (Cap. 169) to enhance animal welfare by introducing a positive duty of care to animals, enhance offences against cruelty and strengthen enforcement powers. (FHB)
- Provide over 60 additional "Inclusive Parks for Pets" in 18 districts in 2022 after consultation with local community, making a total of more than 100 such parks across the territory with enhanced ancillary facilities. (HAB)