

## **Paving the way for all walks of life**

Hong Kong is an international metropolis connecting with the Mainland and the world. Every day, countless small moments of joy unfold across this city.

Whether you are exploring the future, striving to realise your dreams, safeguarding your family's well-being, or enjoying a more abundant life.

Your steadfast steps forward depend on the Highways Department (HyD) working hard in silence ensuring an efficient road and railway network.

We have been shouldering the vital mission of advancing Hong Kong's transport infrastructure and maintaining the public road network.

Together with everyone, we keep moving forward, paving the way for all walks of life.

### **Transport Infrastructure Development**

Road and railway construction connects the city's lifelines, indispensable for the city's development.

The HyD has been actively taking forward various road projects while reviewing Hong Kong's railway development strategy promoting the implementation of new railway projects, and expanding and improving our road and railway network to meet the transport and development needs of Hong Kong.

#### **(Road Construction)**

When expanding the road network, we often encounter challenges and hindrances which cause the need to build bridges and tunnels for achieving the goal of time-saving and high efficiency while taking account of cost-effectiveness.

During project implementation, our professional teams maintain close communications with stakeholders to foster consensus, while keeping a close eye on the works progress, and controlling cost and construction quality. When necessary, we also engage well-experienced consultants and contractors with relevant expertise to implement the projects together.

We attach great importance to site safety as well and strive to mitigate the impacts of the works on the environment and the public. By adopting suitable construction technologies and temporary traffic arrangements, we carry out the works in a safe and effective manner. For example, we use prefabricated modules and “Modular Integrated Construction” to save construction time, and adopt temporary reclamation for tunnel works, so as to restore the harbour’s original appearance as far as possible upon completion of the works.

We fully support the Government’s policy of “Innovation and Technology” and the application of sustainable technologies. We widely utilise Building Information Modelling (BIM) in the planning, design and construction stages to let project teams have an early grasp of the project details within a virtual environment, thus enhancing construction efficiency and quality. We also take the initiative to digitalise the works supervision system through the use of smart mobile devices for real-time data collection on site, as well as integration of project information, thus facilitating the monitoring of works progress and compliance. This helps realise the vision of “innovation” and “professionalism” for the construction industry and further enhances site safety.

To optimise road condition, we have introduced air-purification systems in some of the new road tunnel projects for eliminating most respirable suspended particulates and nitrogen dioxide.

#### (Railway Development)

Under the policy of public transport-oriented with railway as the backbone of our transport system, the HyD is responsible for reviewing the railway development strategy, overseeing and promoting the implementation of new railway projects.

When formulating the blueprint for railway development, we comprehensively consider various factors such as transport and cost-effectiveness, its coverage and the potential environmental impacts. During the implementation of railway projects, we would liaise with relevant departments to solve planning, design and construction issues and oversee the progress of each project to ensure new railway lines are completed as early as possible.

We even keep pace with the times. Leveraging opportunities brought by the implementation of cross-boundary railway projects, to formulate the Hong Kong Railway Standards in collaboration with relevant departments and railway experts, providing clear technical specifications to facilitate the introduction of advanced technologies and equipment. We

also established the Railway Checking Unit to expedite implementation of new railway projects.

As major regional and cross-boundary road and railway projects were commissioned successively, the public's travel experiences have been significantly enhanced. Concurrently, various new transport infrastructure projects are being advanced and implemented in an orderly manner, injecting new impetus into Hong Kong's long-term development.

We actively support the development of the Northern Metropolis by planning, coordinating and taking forward relevant road and railway projects to meet personnel movement and logistics demands, broadening travel options for the general public, deepening connectivity between Hong Kong and the Guangdong-Hong Kong-Macao Greater Bay Area, promoting regional collaborative development, while strengthening links between the Northern Metropolis and the Harbour Metropolis.

We also leverage the opportunity of new technology to introduce the "Smart and Green Mass Transit System" into developed hilly terrains, thereby further optimising the transport network in a more cost-effective manner.

The HyD will continue our efforts in providing unobstructed access for the public to facilitate the flow of people and goods, and build a convenient, smart green Hong Kong together.

Construction, the gateway to Hong Kong's future.

### **Road Maintenance and District-level Works**

Hong Kong is a densely populated and fast-paced city with heavily used roads. The HyD strives to upkeep the road network to ensure unimpeded travel for the public.

From routine road maintenance, road improvement works, to handling of road emergencies and implementation of district works to enhance pedestrian experience, they all fall under the purview of the HyD.

(Routine Duties and Application of Innovative Technologies)

We strive to adopt a preventive approach, arranging appropriate repair and maintenance works in a timely manner through regularly inspecting roads and associated facilities, as well as monitoring bridge structures and roadside slopes. In recent years, we are even committed to and continuously enhancing the efficiency of related works and improving road surface quality by applying innovative technology and introducing new paving materials.

(Public Lighting Service)

Street lamps illuminate the roads at night.

To provide more energy - efficient, durable, environmentally friendly and quality public lighting services, we have been implementing the LED Public Lighting Replacement Programme to progressively replace traditional luminaires across the districts with LED lights. In addition to completing the replacement of about 140,000 streetlights, the programme has been extended to cover all lightings at footbridges, subways, public transport interchanges and underpasses.

We have also adopted the Internet-of-things (IoT) technology to establish the Smart Lighting Management System progressively for real-time remote monitoring of the operation of each lighting point, thus effectively reducing repair time of faulty equipment and enabling formulation of preventive maintenance. The system has been rolled out comprehensively on Hong Kong Island and will be extended sequentially to cover the public lighting systems in Kowloon and the New Territories, leading the public lighting services of Hong Kong into the smart era.

(Night-time Maintenance Works)

When most people rest at night, we forge ahead to keep road facilities in good condition. Apart from inspecting and repairing road facilities, we also carry out large-scale road rehabilitation works at busy road sections to enhance pavement quality while minimising disruptions to traffic.

(Handling of Emergencies)

During rainy and typhoon seasons, we stay vigilant to cope with road emergencies caused by inclement weather and stand ready to activate the Emergency Control Centres (ECCs) whenever necessary. In case of road blockage caused by landslides, fallen trees or objects

blown away by strong wind, the ECCs will co-ordinate for prompt clearance work, so as to restore road traffic.

(Universal Accessibility Programme)

The HyD cares about every step in your life. Over the years, we have been implementing the Universal Accessibility Programme to install lifts and other barrier-free facilities at public walkways, providing convenience to the elderly and others in need.

(Hillside Escalator Links and Elevator Systems)

We have also constructed hillside escalator links and elevator systems in various densely populated areas situated on hillsides. More similar systems are being planned and built to facilitate comfortable and convenient access to hillside areas.

(Providing Covers to Walkways)

To further complement the policy of enhancing walking comfort, so as to foster a pedestrian-friendly environment thus facilitating commuting of citizens, the HyD has also been proactively implementing walkway cover projects according to local needs.

Every day, we are hurrying through this city rush. Let us slow down our pace, and enjoy the scenery along the way.

(Streetscape Enhancement)

We decorate different corners of the city with aesthetic design, creating unique streetscapes for different districts.

(Vegetation Maintenance)

We maintain vegetation for slopes under our purview and within expressway boundaries to enhance the city's ecological environment. Among these, we are gradually replacing ageing "pioneer trees" like Acacia and Eucalyptus trees with resilient, long-flowering native plants, adding colour to communities.

Hong Kong is one of the fastest-paced cities in the world; every second we strive to move forward.

The HyD has been growing with the society, continuously expanding and optimising the road and railway network to connect the city, enabling us to journey around comfortably and steadfastly march towards our goals.

We will continue to uphold our mission, striving to maintain the road network, and safeguard every step of your journey.

The HyD paves the way for all walks of life.