

考察大灣區的創科發展

Greater Bay Area Visits to Study Innovation and Technology Development

為加快香港創新與科技(創科)發展的步伐，機電署繼成立創新辦公室、設立網上創新科技協作平台(E&M InnoPortal)，以及舉辦兩次「創新科技日」後，在過去數月先後多次帶領客戶部門、大學學者和業界代表到訪粵港澳大灣區(包括深圳、廣州和東莞)，考察當地創科的最新發展。我們借鑑當地推行不同創科項目的經驗，為我們的客戶部門及機電業界引進合適的創新科技，以推動香港智慧城市的發展。

考察團的成員來自多個客戶部門及其他機構，包括香港機場管理局、海事處、食物環境衛生署、建築署、土木工程拓展署、

政府產業署、政府物流服務署、路政署、環境保護署、運輸署、香港警務處、消防處、懲教署、政府飛行服務隊、醫院管理局、菲臘牙科醫院、衛生署、香港科技大學及機電業界。

考察團參觀了當地多個創科企業和主要創科基地，了解應用於智慧城市的最新科技，包括多功能智慧路燈；物聯網及數據平台的技術和應用；有助提升智能樓宇、升降機及綜合樓宇管理系統的運作及維修效率的數據分析；智能遙距監控系統及視頻分析的技術發展；通過人工智能雲端平台為客戶提供大數據及分



時任機電署副署長／營運服務戴德謙先生(右一)表示，多元化的考察活動讓客戶部門、機電業界、大學學者和我們的工程師可更了解大灣區在創科方面的最新發展，有助我們把合適的創新技術引進香港，並為業界帶來更多發展機遇。

The then Deputy Director/Trading Services of the EMSD, Mr. Tai Tak-him (1st right), said that the diverse activities of the visits enabled client departments, the E&M industry, academics and our engineers to gain a better understanding of the latest I&T development in the Greater Bay Area, which helped us to introduce appropriate innovative technologies to Hong Kong and bring more development opportunities to the industry.



智慧路燈採用窄帶物聯網技術，可因應季節、天氣和環境變化，靈活地調校開關和亮度，使耗電量節省達10至20%，而且還配備無線網絡、電動車充電裝置、信息顯示屏等設施，便利市民。

Smart street lamps using narrowband Internet of Things technology allow flexible adjustment of the switch and brightness in response to changes in season, weather and environment, saving up to 10 to 20% of power consumption. The street lamps are also equipped with facilities, such as wireless networks, electric vehicle charging devices and information displays, for the convenience of the public.

析服務；智能光伏發電方案；智能模塊數據中心；自動泊車機械人停車系統；以及最新機械人及機械臂系統的開發及其行業應用等。

考察團亦參加了相關的專題會議，與本地及內地的大學學者和創科團隊就大灣區的創科發展交換意見，並藉此機會推廣我們的E&M InnoPortal，以促進粵港兩地在創科方面的合作。

To speed up the pace of innovation and technology (I&T) development in Hong Kong, the EMSD has set up the Inno-Office, launched the E&M InnoPortal, and organised twice the Innovative Technology Day. In the past few months, we also took the lead in organising several delegations, formed by client departments, academics and trade representatives, to the Guangdong-Hong Kong-Macao Greater Bay Area (including Shenzhen, Guangzhou and Dongguan) so as to gain a better understanding of the latest I&T development there. We drew reference from their experience in taking forward various I&T projects with a view to introducing appropriate innovative technologies for our client departments and the E&M industry to promote the development of smart city in Hong Kong.

Members of the delegations came from various client departments and other organisations, including the Airport Authority Hong Kong, Marine Department, Food and Environmental Hygiene Department, Architectural Services Department, Civil Engineering and Development Department, Government Property Agency, Government Logistics Department, Highways Department, Environmental Protection Department, Transport Department, Hong Kong Police Force, Fire Services Department, Correctional Services Department, Government Flying Service, Hospital

最新的機械人及機械臂技術可應用於工程系統的運作及維修保養，以提升醫院及診所等客戶場地的工作效率。

The latest robot and robotic arm technologies can be applied in the operation and maintenance of engineering systems to enhance the work efficiency of our clients' venues such as hospitals and clinics.



自動泊車機械人停車系統
Automated puzzle parking system

Authority, the Prince Philip Dental Hospital, Department of Health, the Hong Kong University of Science and Technology, and the E&M trade.

The delegations visited a number of enterprises and key bases of I&T in the Greater Bay Area to learn about the latest technologies that can be applied to smart cities, including multi-functional smart street lamps; technologies and applications of Internet of Things and data platforms; data analysis which helps enhance the operation and maintenance efficiency of smart

buildings, lifts and integrated building management systems; technological development of smart remote monitoring systems and video analytics; big data and analytics services for clients via artificial intelligence cloud platforms; smart photovoltaic power generation solutions; smart modular data centres; automated puzzle parking system; and the latest development of robot and robotic arm systems and their applications in the trade.

The delegations also attended thematic seminars during which they exchanged views on the I&T development in the Greater Bay Area with academics of local and Mainland universities and I&T teams. We also took the opportunity to promote our E&M InnoPortal to foster I&T collaboration between Guangdong and Hong Kong.



考察團深入了解物聯網及數據平台在智慧城市的交通、保安、通訊、環境等範疇的技術和應用，獲益良多。

The delegations gained a deeper understanding of the technologies and applications of the Internet of Things and data platforms in the areas of transportation, security, communications and environment in smart cities, and benefited greatly from the visits.