

**Annex**

**List of projects supported by TechConnect (block vote)**

<b>Bureau/ Department</b>	<b>Project Title</b>	<b>Expected Benefits</b>	<b>Estimated Non-recurrent Expenditure (\$ million)</b>	<b>Planned Live Run Date (Tentative)</b>
Agriculture, Fisheries and Conservation Department	Pilot Project of Real-time Phytoplankton Taxa Monitoring System	To improve the detection and response capacity of red tide incidents by real-time monitoring phytoplankton taxa	5.4	Q2 2020
Buildings Department	The use of advanced technological testing methods to assist water seepage investigation in buildings	To enhance the efficiency of water seepage investigation	5.0	Q2 2018
Customs and Excise Department (C&ED)	"Smart Crossing" - deployment of radio-frequency Identification (RFID) technology on the recognition of licence plate numbers of cross-boundary private cars	To enhance the efficiency of clearance service by increasing the recognition accuracy of the licence plate numbers of cross-boundary private cars	9.0	Q1 2019
	A study on the development of a "Cargo Big Data System"	To strengthen the risk management capability of C&ED on cargo clearance	9.8	Q1 2020
Civil Engineering and Development Department	Provision of applications to promote smart mobility, sustainable leisure and recreation information of Lantau	To provide traffic and recreation information to Lantau residents and visitors	0.5	Q4 2018

Department of Health	Feasibility study for the implementation of a digitalised Chinese medicine Herbarium	To enhance public understanding on Chinese medicine and its safe use, and respond to the demand of quality and safety standards of Chinese medicine from the industry	1.9	Q1 2019
Drainage Services Department	Provision of ultrasonic sludge pre-treatment facilities at the Tai Po Sewage Treatment Works	To enhance the utilisation of renewable energy and reduce carbon footprint by using ultrasonic technology in sludge pre-treatment	9.7	Q3 2020
	Smart Sewerage Monitoring System	To enhance the performance in monitoring sewerage system and improve the drainage preventive and maintenance works	5.5	Q4 2020
	Retrofitting the SANI small scale plant at the Shatin Sewage Treatment Works	To reduce the generation of sludge in the course of sewage treatment, which in turns optimise the treatment capacity and reduce carbon footprint	9.6	Q3 2020
	Pilot study to investigate rainfall infiltration in existing sewage systems in urban area	To increase the monitoring capacity of rainfall infiltration in existing sewage systems in urban area, strengthen the maintenance of sewage system, and increase the capacity of sewage treatment during heavy rainfall	2.0	Q1 2020

Energizing Kowloon East Office, Development Bureau	To conduct a feasibility study to monitor illegal parking/stopping by utilising video analytics and to conduct a pilot trial at Kowloon East	To monitor and enhance the control of illegal parking/stopping, hence reducing traffic congestion and air pollution	8.0	To commence field test in Q3 2018 and to complete the project in Q1 2020
Environmental Protection Department	Air pollution sensor practicality trial	To enhance the efficiency of air quality monitoring	7.6	Q2 2019
Housing Department	Develop the technology to produce plans for statutory submission from the Building Information Modelling	To promote the use of Building Information Modelling technology in the industry and improve the efficiency of statutory submission of plans	8.0	Q3 2020
Hong Kong Observatory	Integrated urban weather monitoring and data-sharing platform for smart cities	To enhance the integrated weather monitoring and provide an open data sharing platform	8.2	Q2 2019
Hong Kong Police Force	E-statement (speech recognition) and data mining system (EDMS)	To enhance the effectiveness and efficiency in statement taking and content analysis through the utilisation of automation technology	9.5	Q4 2019
	Radio-frequency identification (RFID) system for management of affected people during major incidents	To enhance the planning of rescue missions through boosting the efficiency of information management, and to facilitate multi-agency response and enhance efficiency of large-scale rescue	3.4	Q2 2020

		operations		
	Video explorer	To enhance the prevention and detection of crime by improving the accuracy and efficiency of video analysis	9.9	Q3 2020
	Automation of cybercrime capturing, categorisation and correlation (AC4)	To facilitate analysis of emerging trends and latest modus operandi of cybercrime, and to enhance the prevention and detection of cybercrime	6.8	Q1 2020
	Advanced image processing system	To utilise image enhancement in the context of crime investigation and the presentation of digital evidence for court proceedings	6.7	Q4 2019
Leisure and Cultural Services Department	Non-invasive conservation studies of art and antiquities with innovative imaging technologies	To enhance non-invasive conservation studies of art and antique to enact better conservation plans	6.5	Q1 2021
	Non-invasive conservation studies of cultural heritage with X-ray computed tomography	To better preserve the cultural heritage with non-invasive conservation technologies	9.0	Q1 2021
Office of the Government Chief Information Officer	Pilot cyber security information sharing partnership programme	To improve cyber security resilience of Hong Kong by promoting and facilitating the closer collaboration among local stakeholders of cyber security	8.5	Q3 2018

Water Supplies Department	Provision of in-line hydropower harnessing device for water intelligent network	To enable real-time monitoring of the water supply network, optimise the maintenance works and crisis management, so as to reduce carbon footprint and water leakage	2.0	Q2 2020
	Study on anti-corrosion and anti-biofouling coating for enhancing water pump efficiency	To enhance water pump efficiency in order to reduce carbon footprint	1.1	Q3 2019