Application of Automatic Number Plate Recognition Technology by the Transport Department

		Speed Map Panel System	**Access Control System ("ACS") at Government Public Car Parks**	**Automatic Toll Collection System at Government Tunnels and Control Areas**	**Toll Collection System for Entry to Ma Wan**
(i)	(a) Name of supplier (b) Place of registration	(a) Autotoll Limited (b) Hong Kong	(a) Parking Systems Limited (b) Hong Kong	(a) Autotoll Limited (b) Hong Kong	(a) Autotoll Limited (b) Hong Kong
(ii)	Technologies and functions involved	The system adopts Automatic Number Plate Recognition ("ANPR") hashing technology[1] in deriving traffic information such as average vehicular speed and journey time. Such information is disseminated to the public to keep them informed of real-time traffic conditions.	The system makes use of ANPR technology to prevent abuse of monthly tickets by checking the vehicles entering the car parks against the vehicle registration marks on the issued monthly tickets. In addition, to prevent car theft, when an hourly parking vehicle leaves a car park, the system	The system makes use of ANPR technology to identify those vehicles evading tunnel tolls for follow-up.	The system makes use of ANPR technology to check whether vehicles entering Ma Wan are issued with valid permits.

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[1] Hashing technology is the conversion of collected information into hashed values (i.e. strings composed of alphabets and numbers) to ensure that the relevant information cannot be recovered, thereby safeguarding data protection.

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			verifies if the same parking ticket was used for entering the car park.		
(iii)	Procurement details (including price and quantity)	HK$4 million (including system design as well as procurement, installation and testing of 38 ANPR detectors).	The total cost of replacement of the ACS in 10 government public car parks is about HK$7.5 million. Since the ANPR system is a sub-system of the ACS, no breakdown for the cost of the ANPR system could be provided.	The installation cost of each automatic toll collection lane is about HK$2.5 million. Since the ANPR system is a sub-system of such automatic toll collection system, no breakdown for the cost of the ANPR system could be provided.	The total cost of the toll collection system is HK$1.8 million. Since the ANPR system is a sub-system of such toll collection system, no breakdown for the cost of the ANPR system could be provided.
(iv)	Commissioning date	October 2012	March 2019	2008	2017
(v)	Districts in which the system has been used and the number of such system	38 ANPR detectors are installed on various strategic routes in the New Territories	All entrances and exits of public car parks managed by the Transport Department	All 45 automatic toll lanes of government tunnels and control areas are each equipped with one set of	All four toll lanes for entry to Ma Wan are each equipped with one set of ANPR system[4]

		Speed Map Panel System	Access Control System ("ACS") at Government Public Car Parks	Automatic Toll Collection System at Government Tunnels and Control Areas	Toll Collection System for Entry to Ma Wan
			("TD")[2] are equipped with one ANPR system	ANPR system[3]	
(vi)	The lowest rank of officers who are allowed to operate the system	The system operates automatically. Manual operation is not required.	Operated by the staff of outsourced contractors. The minimum rank is carpark attendant.	Not applicable (Images stored in the system are kept by Autotoll Limited)	Operated by staff of the contractors. The minimum rank is toll collector.
(vii)	Data policy	Recognised number plates and the associated hashed values are automatically deleted immediately after use. Traffic data of average vehicular speed and journey time are automatically stored in the computer system and disseminated to the public via different channels (such as TD's "HKeMobility" and the	Data saved in the system will be retained for one month[5]	Data saved in the system will be retained for three months[5]	Data saved in the system will be retained for 60 days[5]

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[2] Except for the Yau Ma Tei Car Park to be demolished for construction of the Central Kowloon Route and the Wong Tai Sin Public Transport Terminus Car Park which commenced operation in September 2019, all public car parks managed by TD are equipped with ANPR system. The Wong Tai Sin Public Transport Terminus Car Park will be equipped with such system in late 2019.

[3] Each set of system is composed of three internet protocol ("IP") cameras and one video camera.

[4] Each set of system is composed of one IP camera and one video camera.

[5] For cases involving disputes, relevant data will be retained until completion of the cases.

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		Government's Public Sector Information Portal "data.gov.hk").			