

商務及經濟發展局
通訊及創意產業科

香港添馬添美道二號
政府總部西翼二十一樓



COMMUNICATIONS AND
CREATIVE INDUSTRIES BRANCH
COMMERCE AND ECONOMIC
DEVELOPMENT BUREAU

21/F, West Wing
Central Government Offices
2 Tim Mei Avenue
Tamar, Hong Kong

本函檔號 OUR REF :
來函檔號 YOUR REF :
電話 TEL. NO. : 2810 2708
傳真 FAXLINE : 2511 1458
電子郵件 E-mail Address : keithgiang@cedb.gov.hk

By email

25 November 2020

Mr Daniel SIN
Clerk, Legislative Council Panel on
Information Technology and Broadcasting
Legislative Council Complex
1 Legislative Council Road
Central, Hong Kong

Dear Mr SIN,

**Panel on Information Technology and Broadcasting
Follow-up to Meeting on 9 November 2020**

At the meeting on 9 November 2020, Members requested the Government to provide the following supplementary information on the application of Internet of Things (IoT) and the distribution of spectrum for the provision of mobile services:

Application of IoT

Licensed mobile network operators (MNOs) and wireless IoT service providers are required to report to the Office of the Communications Authority regularly the number of wireless IoT devices they installed or supplied. As at end-June 2020, the number of such devices is about 250 000 with a wide scope of application, including smart home and meter readings for water, electricity and town gas consumption, crowd monitoring and safety management of sites and properties,

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environmental monitoring (temperature, humidity, energy consumption, air quality, water leakage, etc.), smart parking, monitoring of tree conditions, etc.

Currently, wireless IoT devices are mainly supported by 2G, 3G and 4G technologies. With the continuous development and wider application of 5G services launched in April this year, we expect that more wireless IoTs deploying 5G technologies will be made available to the market gradually.

Spectrum for Provision of Mobile Services

More than 2 000 MHz of radio spectrum is currently used for mobile communications services in Hong Kong, details of which are at [Annex](#). In accordance with the technology-neutral principle in spectrum management by the Communications Authority, MNOs may re-farm their existing spectrum for provision of 2G/3G/4G/5G services flexibly according to the demand of their mobile services customers.

Yours sincerely,



(Keith GIANG)

for Secretary for Commerce and Economic Development

Encl.

c.c. Director-General of Communications
(Attn.: Mr YOUNG Chin-hung, Desmond)

Radio Spectrum Used for Provision of Public Mobile Services

<u>Band</u>	<u>Type of Mobile Services*</u>				<u>Total</u> (MHz)
	<u>2G</u> (MHz)	<u>3G</u> (MHz)	<u>4G</u> (MHz)	<u>5G</u> (MHz)	
850/900 MHz		35.0			35.0
900 MHz	14.8		35.0		49.8
1 800 MHz	28.8		120.0		148.8
1.9 - 2.2 GHz		29.2	19.6	69.6	118.4
2.3 GHz			90.0		90.0
2.5/2.6 GHz			140.0		140.0
3.3 GHz				100.0	100.0
3.5 GHz				200.0	200.0
4.9 GHz				80.0	80.0
26/28 GHz				1 200.0	1 200.0
Total	43.6	64.2	404.6	1 649.6	2 162.0

* Situation as at end-October 2020.