

Keynote Speech:

A Regulator's Perspective on the Development of IoT in Hong Kong

Mr Sandra Cheuk

Deputy Director General of Communications (Telecommunications)
Office of the Communications Authority

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Overview of Telecommunications in Hong Kong

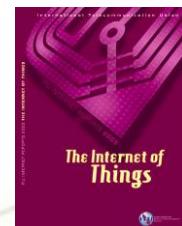
Telecommunications
and Internet hub in
the region

Excellent network
infrastructure with
connectivity to the
world and territory
wide local network
coverage

State-of-the-art
technologies and
variety of services at
affordable prices

Light-handed and
pro-market
regulatory approach

Hong Kong as a testbed and pioneer for adoption and deployment of innovative technologies and solutions



Internet of Things (IoT) Technologies & Applications



IoT concept

- ITU set out the vision of IoT in 2015

IoT networks

- enable different forms of collaboration and communications between people and things, and between things

IoT enabled home environment

- smart home appliances equipped with communications functions

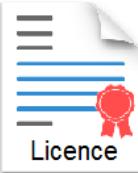
IoT enabled industry applications

- reduce costs, increase efficiency, reliability, and productivity

IoT enabled Government services

- enable smarter delivery of public services to citizens

Facilitating Development of IoT – Timely Update of Regulatory Regime



December 2017

Creation of a new type of Wireless IoT (WIoT) Licence and adoption of licence-exempt arrangement for use of IoT equipment



March 2015

Allocation of dedicated number resource for machine-to-machine communications with no fee charged for use

July 2019

Creation of a new Localised Wireless Broadband Service (LWBS) Licence for use of shared spectrum in 26/28 GHz bands for innovative services



October 2018

Lower licence fee of WIoT device under Unified Carrier Licence (on par with WIoT and LWBS Licences) to facilitate mobile network operators (MNOs)' development of WIoT services

Facilitating Development of IoT – Introduction of 5G Mobile Services

We have timely made available about 4 500 MHz of spectrum in various bands for 5G deployment and will continue to make available more suitable spectrum in coming years

March 2017

Promulgation of work plan to make available spectrum for 5G services

October 2018

Opening up suitable Government venues for installation of radio base stations (RBSs)

October 2019

Opening up suitable public payphone kiosks and sheltered bus stops and more Government venues to help MNOs extend 5G network coverage



October 2017

Introduction of a Subsidy Scheme to extend fibre-based networks to villages in remote areas

March 2019

OFCA launched a pilot scheme to open up about 1 000 Government venues for installation of RBSs

April 2020
Commercial launch of 5G mobile services

May 2020
Open for application
Subsidy Scheme for encouraging early deployment of 5G

Safeguarding Security & Public Education

Safeguarding Security

- updated relevant guidelines to extend the security requirements to 5G networks
- developed and issued a Code of Practice on Operation and Management of IoT Devices



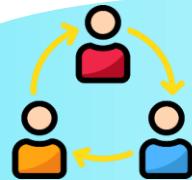
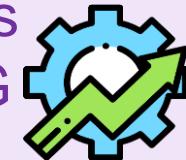
Public Education

- issued a set of consumer advices on the use of IoT devices
- launched a new 5G thematic website at www.5g.gov.hk
- continue to enhance public knowledge of the new technologies through various channels

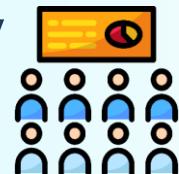
Concluding Remarks



Immense economic and social opportunities and benefits to be brought by innovative 5G services and IoT applications



The engineering community and the society work together to unleash the potentials and benefits of 5G and IoT technologies



Further strengthen Hong Kong's position as a globally competitive economy standing at the forefront of technological innovations

Thank You

