

# Latest Progress in Preparing for the Launch of 5G Services

Telecommunications Regulatory Affairs Advisory Committee

27 November 2019



# Preparing for the Launch of 5G Services

Release of radio spectrum

Facilitating measures for 5G implementation

Guidelines on the use of the term “5G”

Public education on 5G services

# 5G



# 5G Spectrum Released in 2019

Additional spectrum of about **4 500 MHz**  
is **8** times of assigned spectrum (2G/3G/4G)

Administrative  
Assignment

26/28 GHz Bands ( 4100 MHz)

For Large Scale Public  
Mobile Services (3 700 MHz)

For Localised Innovative  
Wireless Services (400 MHz)

Assignment and Use



Assigned and available for  
use since April 2019

Open for assignment and use  
from mid July 2019

Market-based  
Assignment

3.5 GHz Band  
(200 MHz)

4.9 GHz Band  
(80 MHz)

3.3 GHz Band  
(100 MHz)

Spectrum Auctions



October and November 2019 (completed)

Assignment and Use

April 2020

December 2019

December 2019

# Facilitating 5G Trials

Since 2017, the CA has issued around **50 trial permits** to the four MNOs and some equipment vendors with free temporary frequency assignments in the 3.5 GHz band and 26/28 GHz bands



Some of the technical reports for 5G trial are available at -

[https://www.ofca.gov.hk/en/pub\\_report/technical\\_reports/index.html#01](https://www.ofca.gov.hk/en/pub_report/technical_reports/index.html#01)

# Facilitating 5G Network Rollout

Mar  
2019

OFCA launched a pilot scheme for providing **about 1 000 government venues** for MNOs to install RBSs under streamlined application and approval procedures



Oct  
2019

**Public facilities** and **more Government venues** will be opened up to help MNOs extend 5G network coverage under 2019 Policy Address



Sheltered bus stops



Public payphone kiosks

# Technical Mitigation for 5G Implementation

Set up **restriction zones** in Tai Po and Stanley for use of 3.5 GHz band to protect existing TT&C Stations

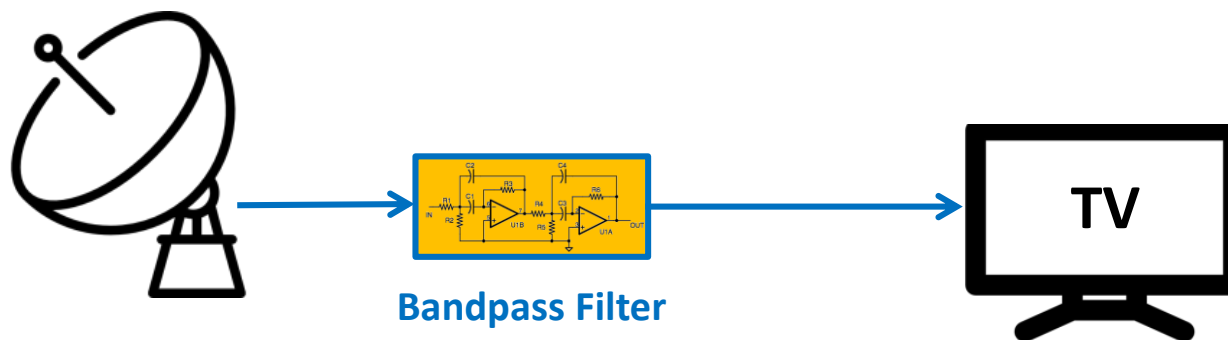
Tai Po and nearby areas

Long-term solution to **relocate** TT&C Stations in Tai Po

Stanley

# Technical Mitigation for 5G Implementation

**Upgrade of eligible SMATV systems** under a subsidy scheme with funding contributed by MNOs assigned with spectrum in 3.5 GHz band



# Guidelines on the Use of the Term “5G”

Imminent launch of 5G services in Hong Kong

Various approaches may be adopted in offering 5G products and solutions

Guidelines to **provide practical guidance to the industry** on use of the term “5G” in describing, promoting or marketing their networks, systems, services, devices, products or applications



# 5G Thematic Website

[www.5g.gov.hk](http://www.5g.gov.hk)

What is  
5G?

The  
Operation  
of 5G

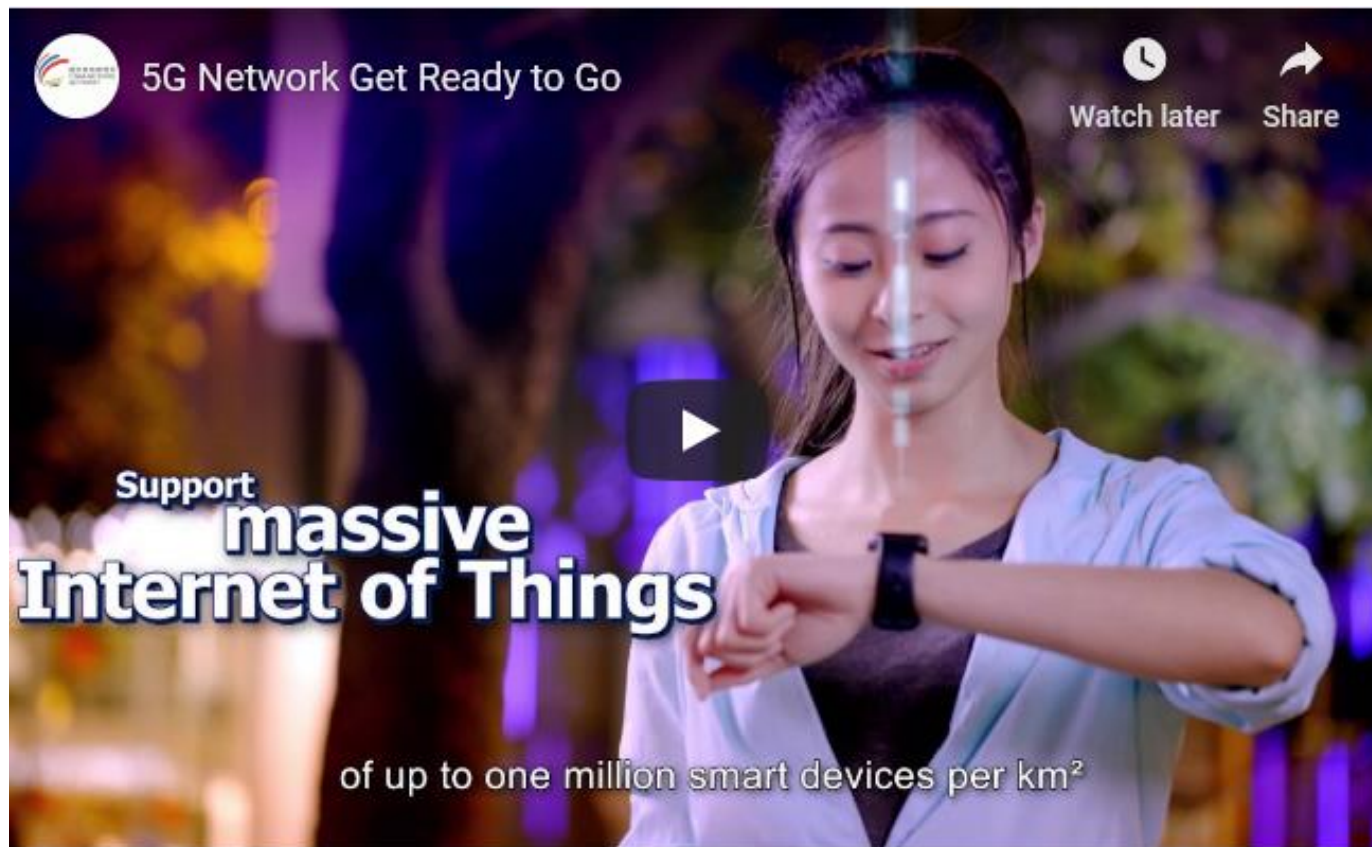
Examples of  
5G Applications



International  
Development  
of 5G

Installation of  
Base Stations and  
Radiation Safety

# 5G Network Ready to Go



Source: [https://www.ofca.gov.hk/en/consumer\\_focus/education\\_corner/video/index\\_id\\_61.html](https://www.ofca.gov.hk/en/consumer_focus/education_corner/video/index_id_61.html)

The Government's Information Services Department has released a short video introducing 5G services

[https://www.news.gov.hk/eng/2019/08/20190808/20190808161305\\_888.html?type=category&name=infrastructure&tl=t](https://www.news.gov.hk/eng/2019/08/20190808/20190808161305_888.html?type=category&name=infrastructure&tl=t)



# Radiation Safety of RBSs



Source: [https://www.ofca.gov.hk/en/consumer\\_focus/education\\_corner/video/index\\_id\\_60.html](https://www.ofca.gov.hk/en/consumer_focus/education_corner/video/index_id_60.html)



# Public Education Activities



Roving exhibitions, public seminars, community talks and school dramas to introduce the latest developments of telecommunications including 5G services

Further information on “Consumer Education Campaign on Smart Use of Communications Services 2019” is at —

[https://www.ofca.gov.hk/en/consumer\\_focus/education\\_corner/public\\_edu/2019\\_consumer\\_education\\_campaign/index.html](https://www.ofca.gov.hk/en/consumer_focus/education_corner/public_edu/2019_consumer_education_campaign/index.html)



# Thank You

