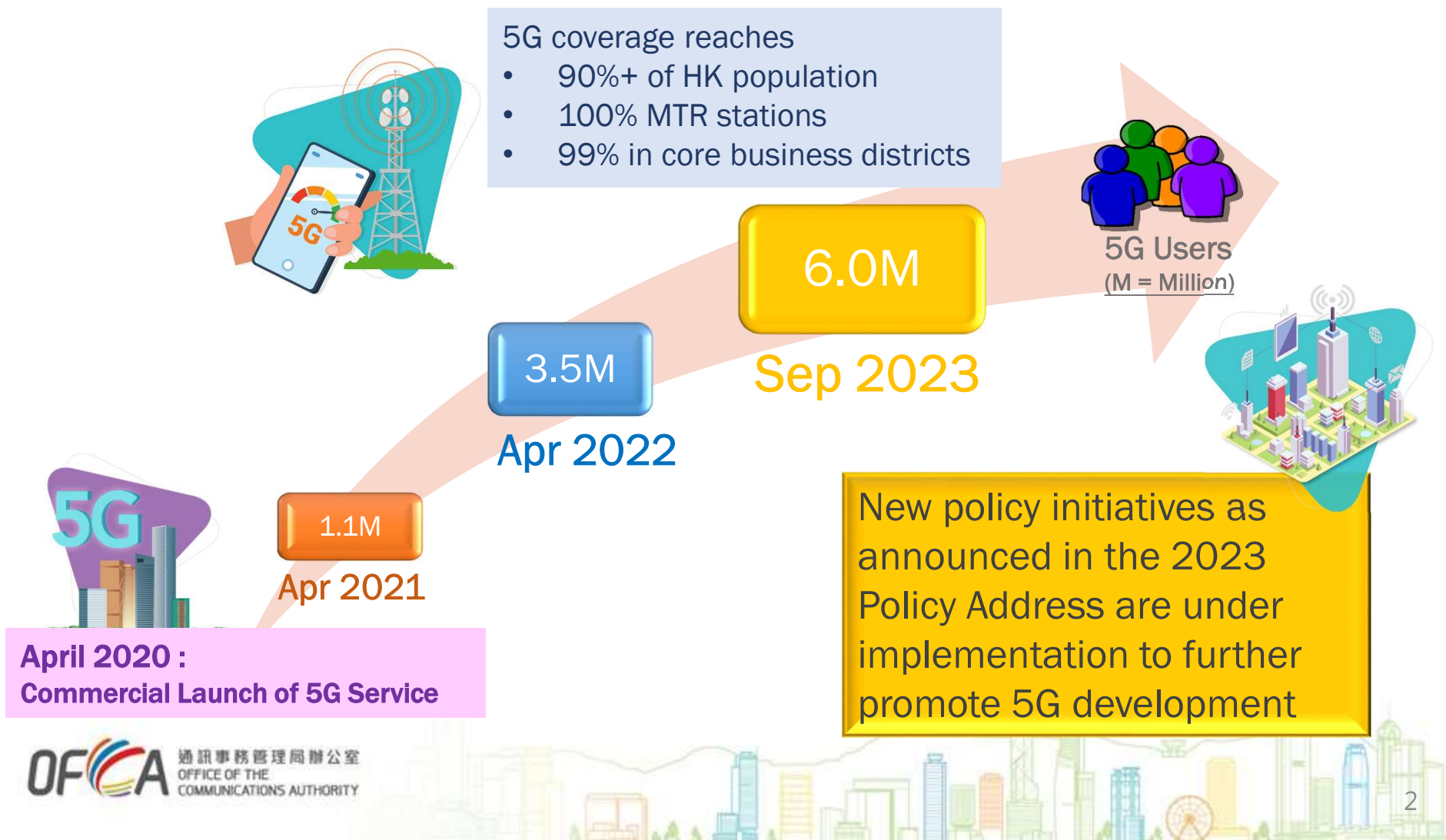


New Policy Initiatives to Promote 5G Development

Telecommunications Regulatory Affairs Advisory Committee
30 January 2024



Background



New Policy Initiative: **Enhancing Coverage of 5G Networks in Rural and Remote Areas through Subsidies**



5G Network Coverage and Infrastructure in Rural and Remote Areas

Coverage of 5G networks in rural and remote areas is comparatively **less extensive**

Important to provide **reliable mobile coverage** for these areas



Higher costs for establishing mobile network infrastructure

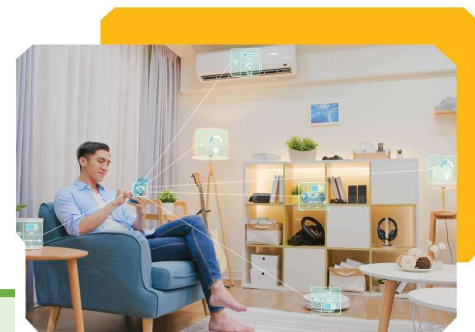
Expedite the expansion of 5G network infrastructure in rural and remote areas **through** the provision of **subsidies**



Benefits of the Policy Initiative



1. Promote **economic development**



2. Improve **quality of life**

By encouraging MNOs to **accelerate roll-out of mobile infrastructure** and **extending 5G coverage** in rural and remote areas

3. Ensure **safety** of countryside activities



Current Progress and Way Forward

Current Progress

**Early
2024**

Collecting from MNOs **technical information** for establishment of radio base stations in rural and remote areas

Way Forward

**Within
2024**

To prepare the **implementation** and formulate the **technical details and operational arrangement**

**Within
2025**

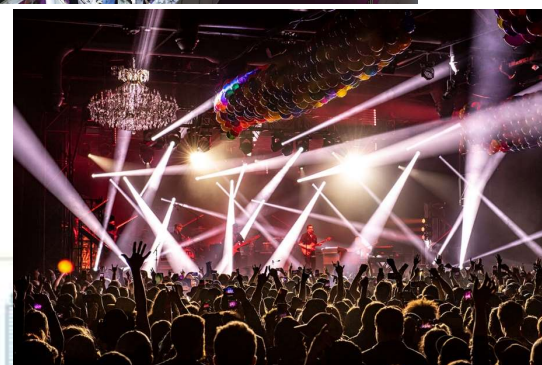
Target to **launch the scheme**

New Policy Initiative: **Enhancing the 5G Network Capacity at Major Public Event Venues**



Enhancing the 5G Network Capacity at Major Public Event Venues (1)

- During major public events at exhibition centres, concert halls etc.
 - Large crowd of participants are simultaneously using mobile services
 - Mobile users may experience decrease in mobile connection speed
- Success of organising major public events in Hong Kong
 - Sufficient network coverage and capacity at these venues is important



Enhancing the 5G Network Capacity at Major Public Event Venues (2)

2023 Policy Address Initiative

- Facilitate 5G capacity expansion by proactively coordinating with relevant organisations to enhance 5G network capacity at the major public event venues such as:



Hong Kong Coliseum

Hong Kong Convention and Exhibition Centre



AsiaWorld-Expo

Central Harbourfront Event Space



Enhancing the 5G Network Capacity at Major Public Event Venues (3)

Coordination with MNOs and relevant venue owners/manager

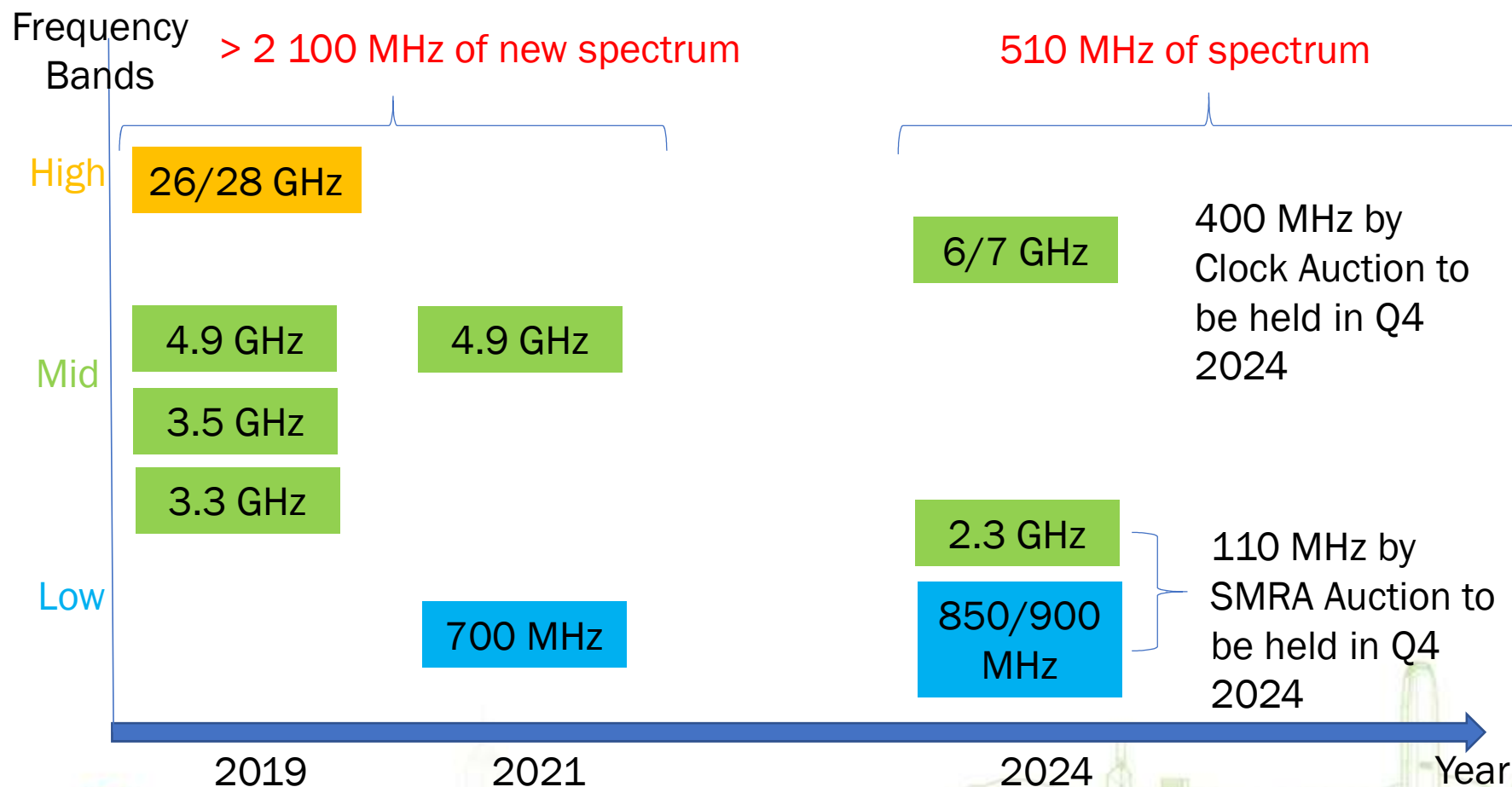
- Technical Working Group (“TWG”) with four MNOs was formed in November 2023
 - To review the current status of provision of mobile services at the four major public event venues
 - To identify the target list of venues requiring 5G coverage enhancement
- For the target venues, OFCA will
 - Coordinate with the relevant venue owners/managers and MNO to facilitate mobile network installation/enhancement
 - Arrange meetings/visits to agree on the technical arrangements of enhancing the 5G network capacity
 - Monitor and facilitate the development of the network enhancement works accordingly



New Policy Initiative: **Supplying More Spectrum to Mobile Network Operators by Auctions**



Spectrum Supply between 2019 and 2024



Spectrum Auctions to be held in Q4 2024

Frequency Band	850/900 MHz and 2.3 GHz Bands	6/7 GHz Band
Joint Statement of CA and SCED	Issued on 2 May 2023	To be issued in late Feb 2024
Spectrum Supply	850/900 MHz: 20 MHz 2.3 GHz: 90 MHz	400 MHz *
Frequency Block Size	850/900 MHz: 2 x 5 MHz 2.3 GHz: 10 MHz	20 MHz *
Spectrum Cap	850/900 MHz: 2 x 5 MHz 2.3 GHz: 50 MHz	140 MHz *
Information Memorandum	To be issued in Q3 2024	To be issued in Q3 2024

* Proposed in the consultation paper

Spectrum Auctions to be held in Q4 2024

Frequency Band	850/900 MHz and 2.3 GHz Bands	6/7 GHz Band
Auction Format	<p>Simultaneous Multiple Round Ascending (SMRA)</p> <ul style="list-style-type: none">- All blocks are auctioned simultaneously- The auction continues in multiple rounds until there is a round in which bidding stops for all frequency blocks	<p>Two-staged Clock Auction *</p> <ul style="list-style-type: none">- Quantity Stage: bidders bid for the number of blocks they wish to acquire in multiple rounds, until there is no excess demand- Assignment Stage: a single round of bidding to determine the contiguous frequency blocks that may be assigned to each bidder

Thank You

