

HKEVBGA x 3HK

More Diversity

More

Disclaimer



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ABOUT US

- Hutchison Telephone Company Limited ("HTCL"), a subsidiary of Hutchison Telecommunications Hong Kong Holdings Limited (HTHKH; stock code: 215) incorporated in Hong Kong
- HTHKH is a group member of CK Hutchison Holdings Limited (CKHH; stock code: 1)
- HTHKH provides 5G, 4G LTE, 3G and GSM dual-band mobile telecommunications services under the 3 brand

LEADING MOBILE SERVICE

PROVIDER IN HONG KONG

CK Hutchison





At a glance 50+ countries of operation 300,000+ employees worldwide US\$59 Billion (2019 turnover)

- Among the largest companies listed on the main board of The Hong Kong Stock Exchange
- Renowned multinational conglomerate committed to innovation and technology



6 Core Business Operations Globally

CK Hutchison Telecom



CK Hutchison Telecom in 12 markets globally

APAC

- Australia
- Hong Kong
- Indonesia
- Macau
- Sri Lanka
- Vietnam



Europe

- Austria
- Denmark
- Ireland
- Italy
- Sweden
- UnitedKingdom



3 Hong Kong Mobile Services

Hong Kong section



5G Launch

- 2018: First Hong Kong operator to make live outdoor broadcast via 5G in November
- 2019: Appointed lead operator to build an integrated 5G radio system for HKCEC 5G network trials done at:
 - HKCEC, Wanchai
- HK Int'l Airport, Lantau
- Ocean Pride Mall, Tsuen Wan

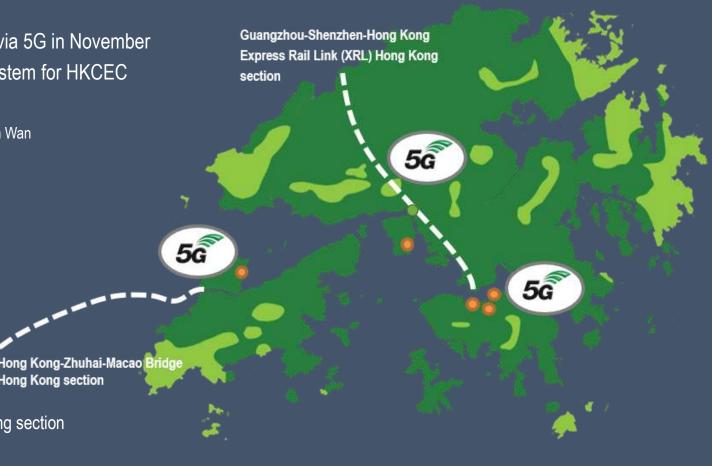
- Causeway Bay
- North Point

Tsing Yi

2020 1st April: 5G service launch

Extensive Network Coverage

- The only local operator to own blocks of spectrum across 900MHz, 1,800MHz, 2,100MHz, 2,300MHz and **2,600MHz** bands for 4G services
- 4.5G coverage along 2 new cross-border channels
 - Guangzhou-Shenzhen-Hong Kong Express Rail Link (XRL) Hong Kong section
 - Hong Kong-Zhuhai-Macao Bridge Hong Kong section
- Full outdoor NB-IoT coverage with 900MHz and 1,800MHz band spectrum



Leader in Enterprise Solutions



Corporate Location-Based Service (CLBS)

8

Driving Safety and Analytics

Vehicle Surveillance





Evolving Mobile Technologies

1**G** 1982

2G 1992 3**G** 2001

4G 2011

5G

2020









Super High Speed Massive Connectivity Super Low Latency



Up to

2.4kbps



















loT



- Smart retail Smart building
- **UHD** broadcast

UHD surveillance

Smart vehicles and more..





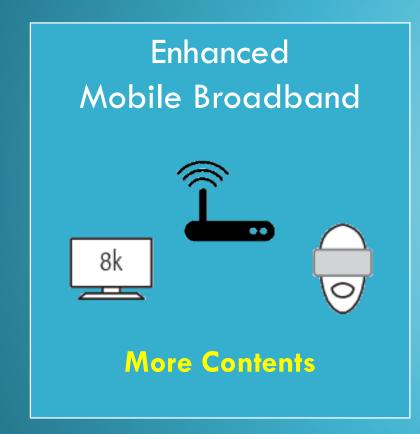
Up to 1Mbps



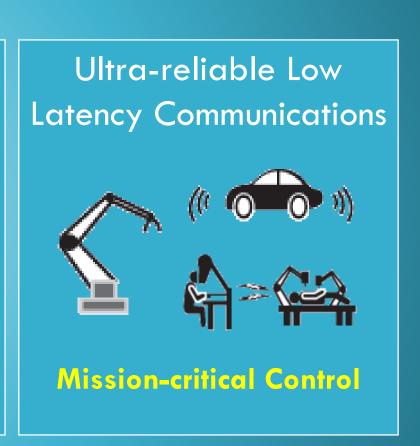




5G Advantages



Massive Machine Type Communications **More Devices**

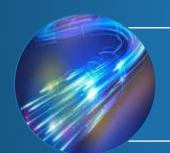


Successful 5G Trials in 2018



First 5G

One of the first network operator to conduct 5G trial in downtown area



Over 2Gbps in Downtown

Achieved over 2Gbps speed in Causeway Bay and Tin Hau



Live 4K Video Broadcast

Real-time 4K video broadcast in a press event









Recent 5G Network Deployment

- HTCL is experienced in acting as Lead Operator (2G, 3G, 4G & 5G) for numerous mobile network deployments in Hong Kong.
- Three major 5G IRS deployment cases:



Exhibition Centre

Hong Kong Convention and Exhibition Centre Phase 1 & Phase 2



Hong Kong Land

- o Landmark Atrium
- One Exchange SquareTwo Exchange Square
- Three Exchange Square
 - o The Forum
 - o Prince's Building
 - Jardine House
 - Alexandra House
 - Charter House
 - Edinburg Tower
 - o Gloucester Tower
 - York House



OP Mall

OP Mall in Tsuen Wan

Global 5G Updates



US

Verizon: Fixed and mobile 5G in 9 cities

AT&T: Mobile 5G in 21 cities T-Mobile: Commercial 5G service six cities; nationwide coverage expected in 2020 Sprint: Mobile 5G in 9 cities

Vodafone: 5 cities in trial

UK

3UK: London in Aug 2019. Extends to 25 cities within 2019

Vodafone UK: 15 cities in July 2019

Extends to 22 cities within 2019 EE: 6 cities in May 2019; 10 more cities in 2019; 10 cities in 2020 O2: 20 cities in 2019; 50 cities by summer of 2020

Germany

Vodafone: 6 cities in July 2019 T-Mobile: 5 cities in Sept 2019

Switzerland

Swisscom: launch in April 2019 Sunrise: launch in Sept 2019

Austria

3Austria: Linz in Jun 2019; Worgl and Vienna in Sep 2019

T-Mobile: 17 rural municipalities and in 2 urban municipalities in trial

Italy

Wind Tre: partnered with FastWeb; trials in L'Aquila and Prato.

Vodafone: launched in 5 cities TIM: Igunched in 2 cities Wind Tre

China

China Mobile: trial in 5 cities in Q3 2018; launched 40 cities in Sept 2019

China Unicom: trial in 40 cities China Telecom: trial in 17 cities expanding to 40.

Australia

Optus: Fixed 5G started in 2 cities; over 1,000 5G sites by Mar 2020 Telstra: trial in major cities Vodafone: 5G services in 2020

Korea

KT, SKT and LG Uplus: all launched 5G services. Over 2 million subscribers as of Aug 2019

Japan

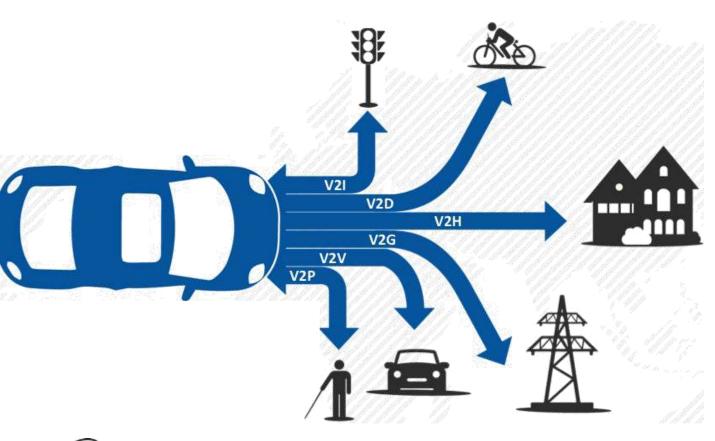
scale in 2020

NTT DoCoMo: launched in major cities in Sept 2019; national-wide by mid-2020 Softbank: initial launch by Mar 2020; 60% by 2025 KDDI: selected areas by 2019, full





Internet of Vehicle





ADAS & Driving Safety



Smart Parking



Mobile EV Charger



Fleet Management & Telematics



