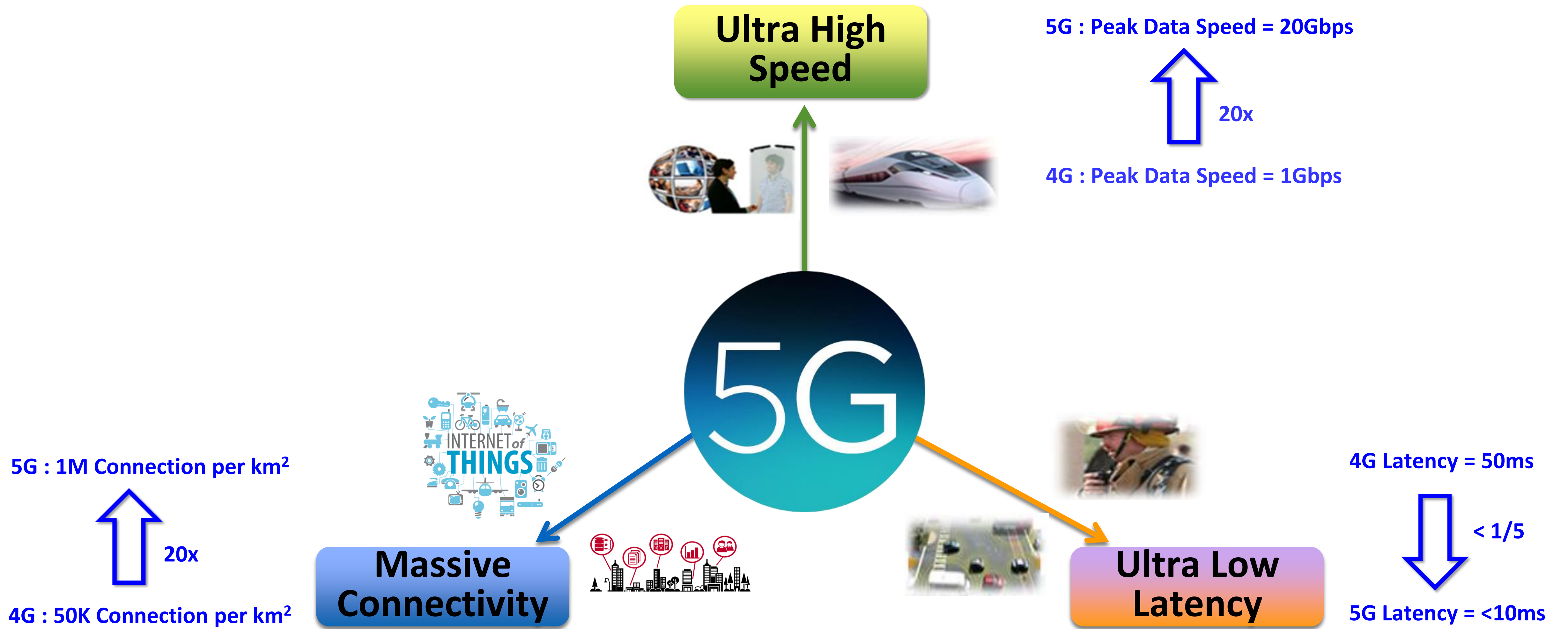




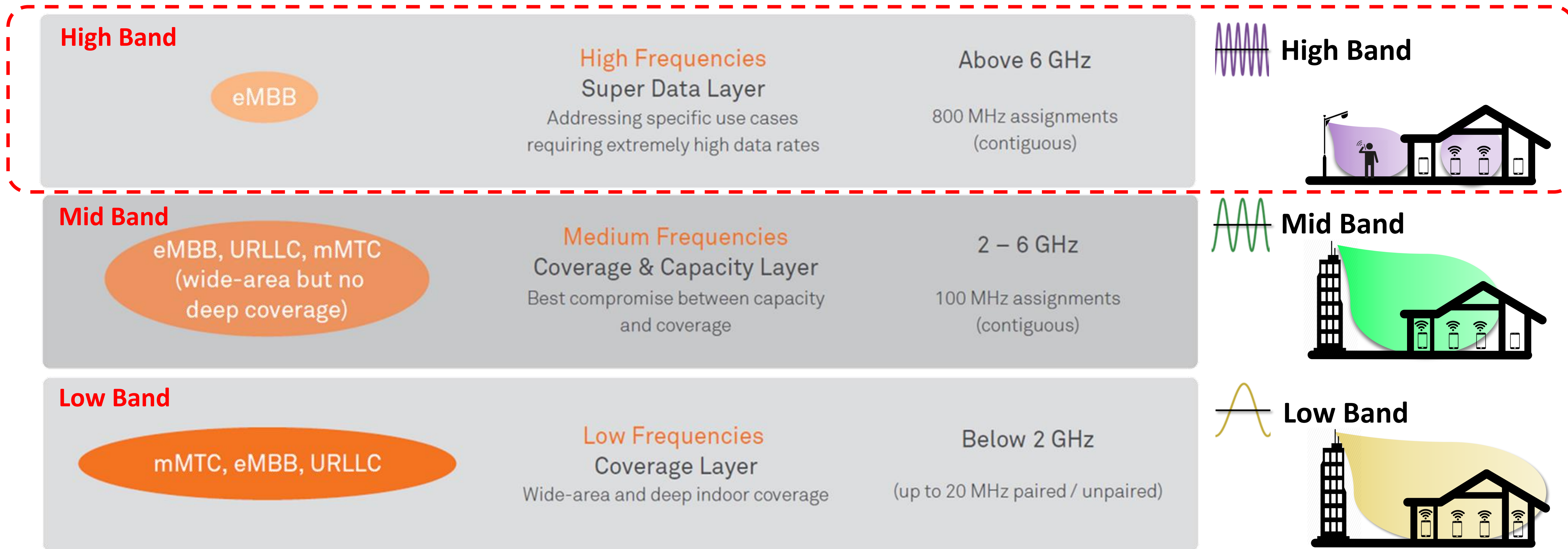
5G Application Demo

21 May 2019

5G Capabilities



Multiple Frequency Bands to Support 5G Use Cases



HKT is assigned with 400Mhz spectrum at 28GHz in Apr 2019

5G Demo Cases using HKT's 28GHz Spectrum (400MHz)

Demo 1 : 4K Camera Surveillance over 5G connection

Demo 2 : 4K TV Content Streaming over 5G connection

Demo 3 : OFCA Speed Test

Demo 4 : Large File Download (4G vs 5G)

- **FTP download via 4G (using mobile as modem for notebook)**
- **FTP download via 5G (using CPE as modem for notebook)**

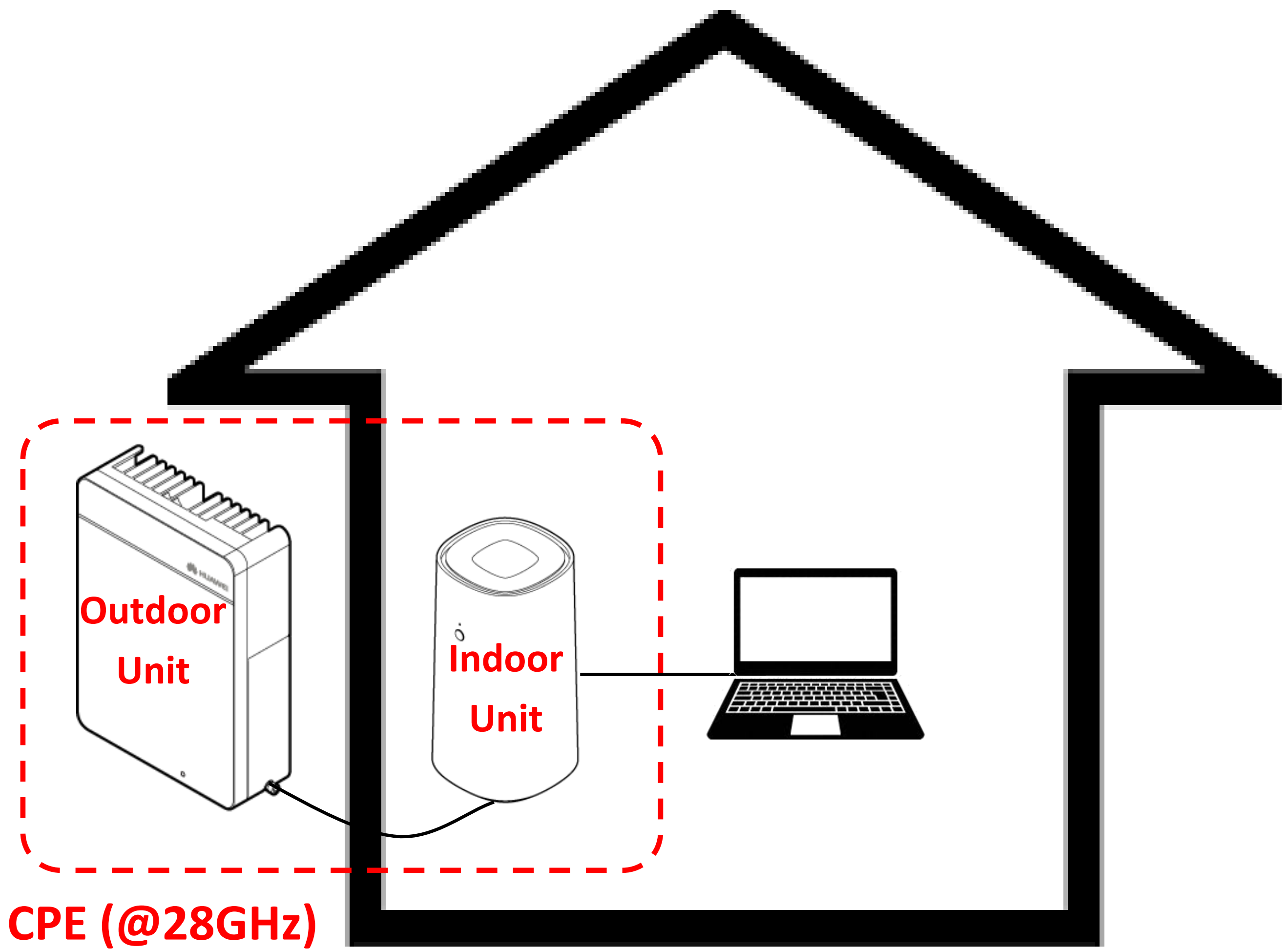
Demo 5 : 5G Peak Speed

5G demos will be conducted using CPE device / Test Equipment

5G CPE @ 28GHz



5G @ 28 GHz

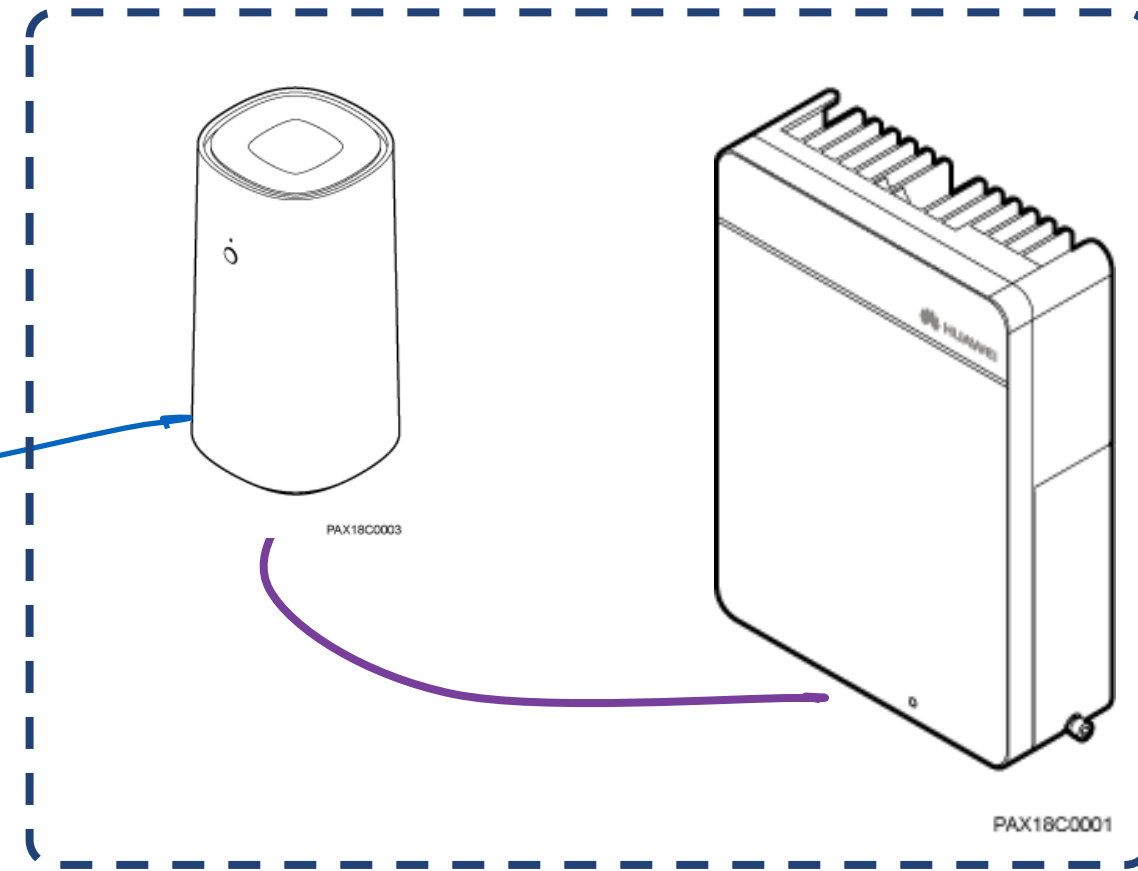


Demo 1: 4K IP Camera Airport Runway

4K Camera at Rooftop of
Airport World Trade Centre



5G CPE



5G @ 28 GHz



5G Base Station

5G Core

Broadband



View of Airport South Runway

Demonstration Area
@ 14/F PCCW Tower



4K Television



HDMI



GE Lan cable

High Quality Surveillance at Anyway

Demo 2 : 4K TV Content Streaming over 5G

**Demonstration Area
@ 14/F PCCW Tower**



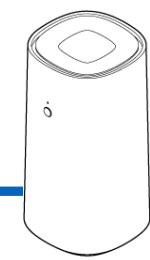
4K Television



HDMI



Now-E box



CPE

5G

5G @ 28 GHz



5G Base Station

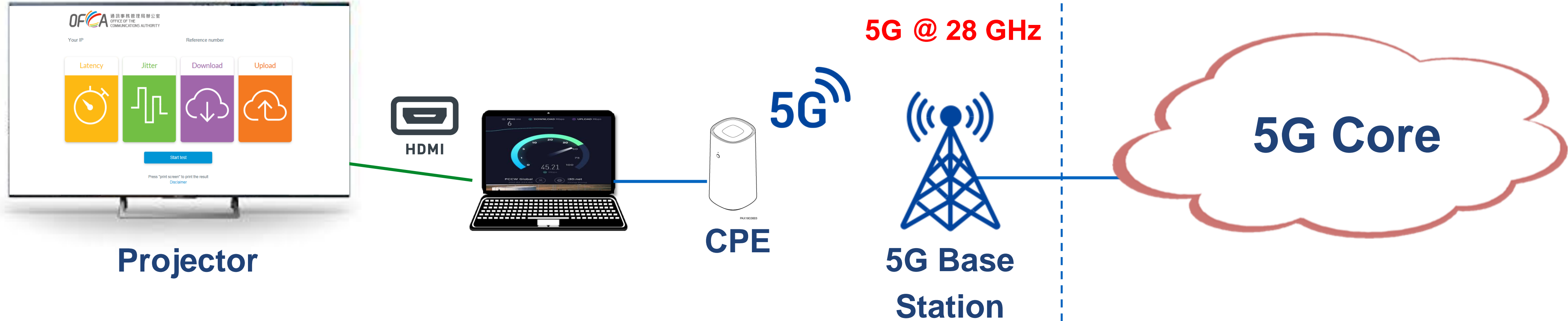
5G Core

Now TV
Content Server

Movable High Quality Video

Demo 3 : OFCA Speed Test with CPE

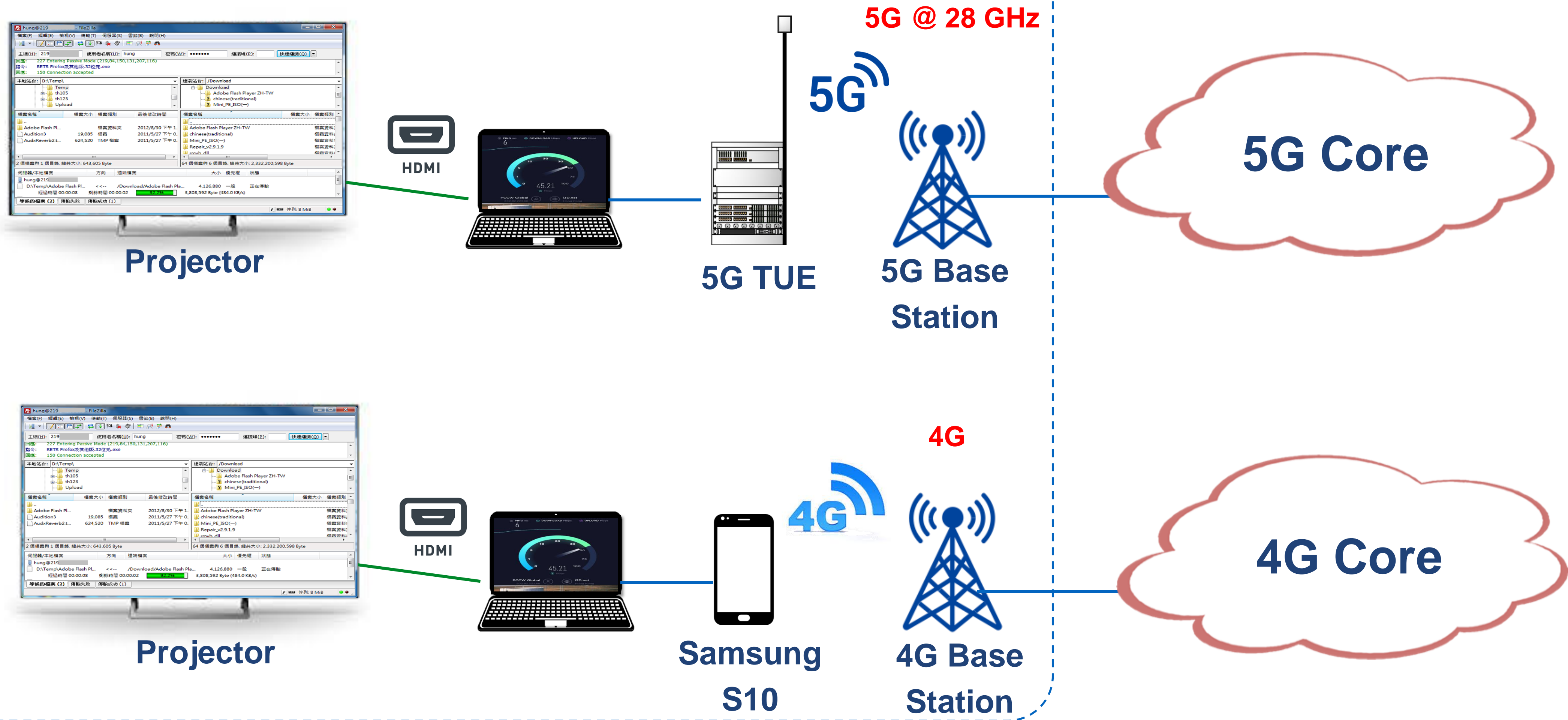
**Demonstration Area
@ 14/F PCCW Tower**



Demonstrate 5G less than 10ms network latency

Demo 4 : Large File Download (4G vs 5G)

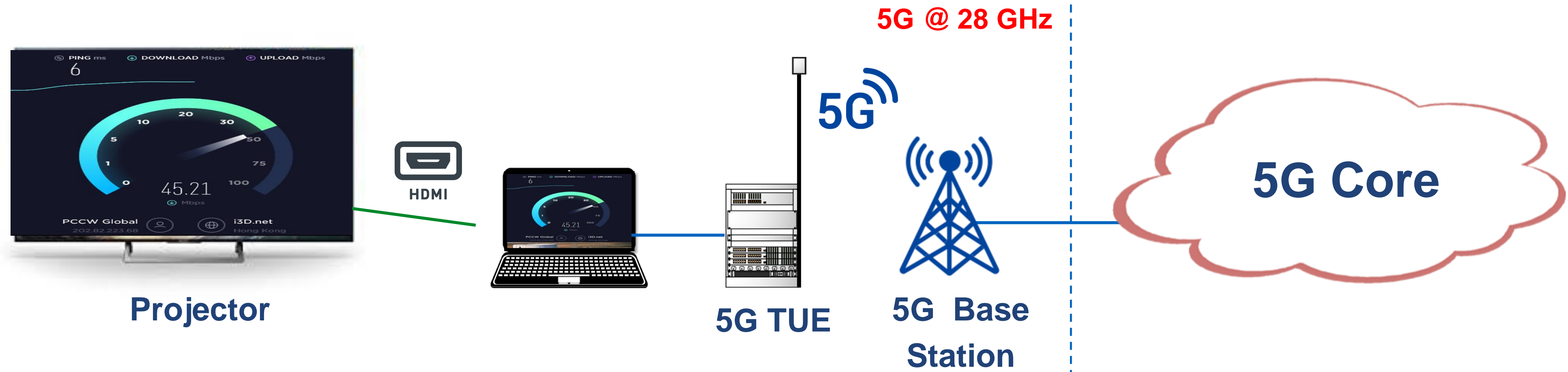
Demonstration Area
@ 14/F PCCW Tower



Potential Application: Download Large Files On-the-Go

Demo 5 : 5G Peak Speed Demonstration

Demonstration Area
@ 14/F PCCW Tower



Projector

5G TUE

5G Base Station

5G Core

Demonstrate max DL throughput with 28GHz spectrum 400MHz bandwidth

