

Connect
The world



with
WIFI 6

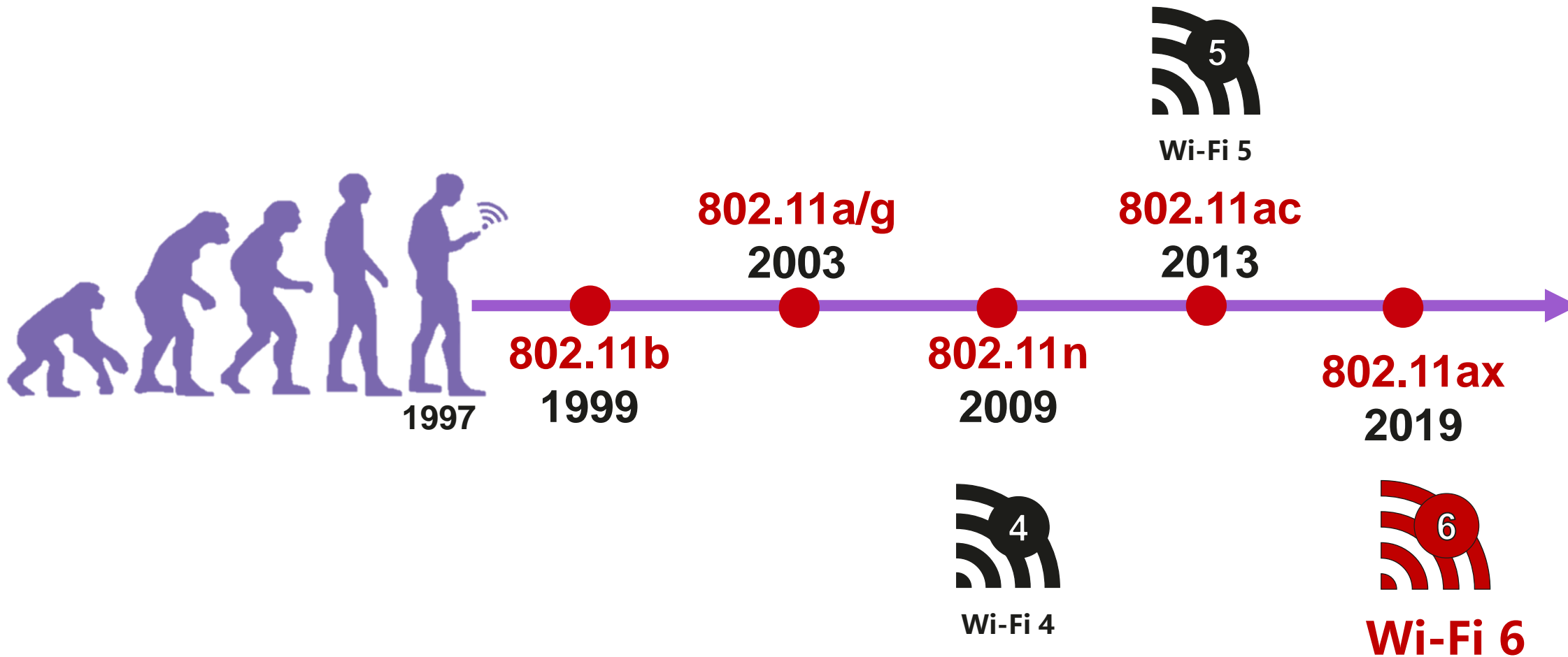
Chakkree Tipsupa
Network Product Manager
Huawei Enterprise Thailand



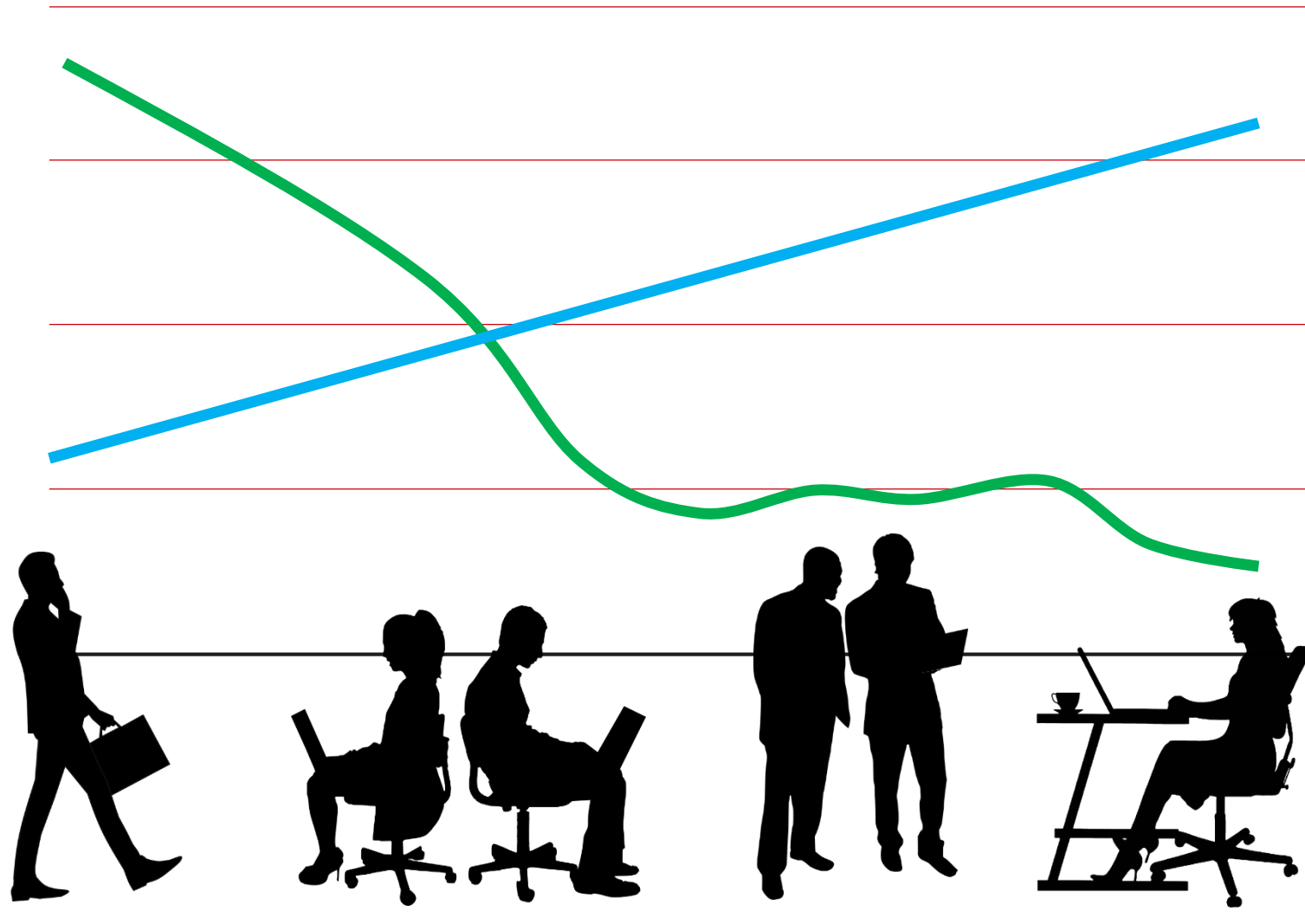


What
it really
is

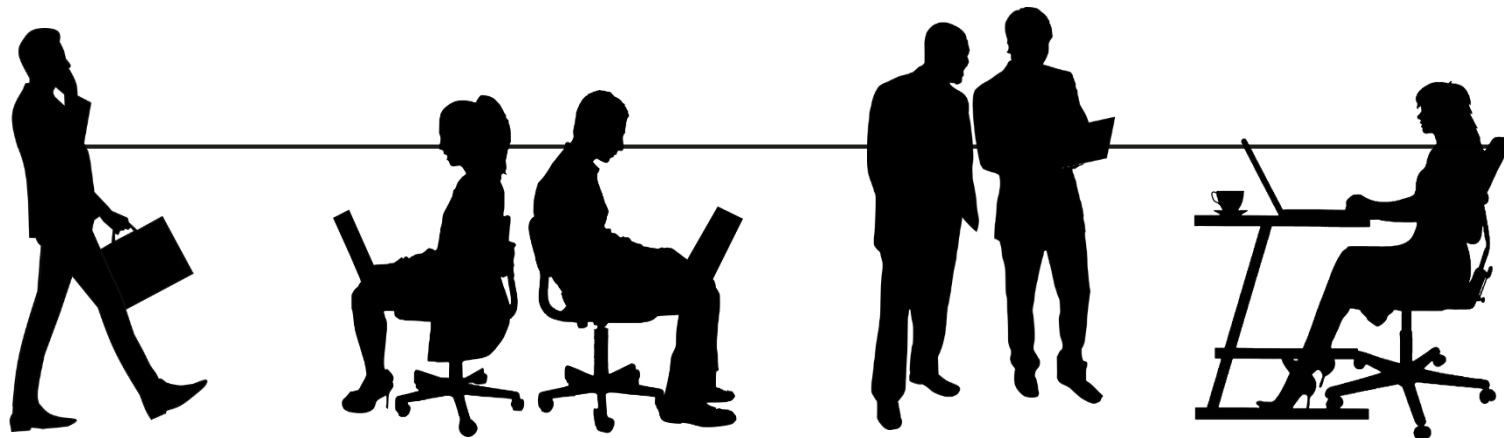
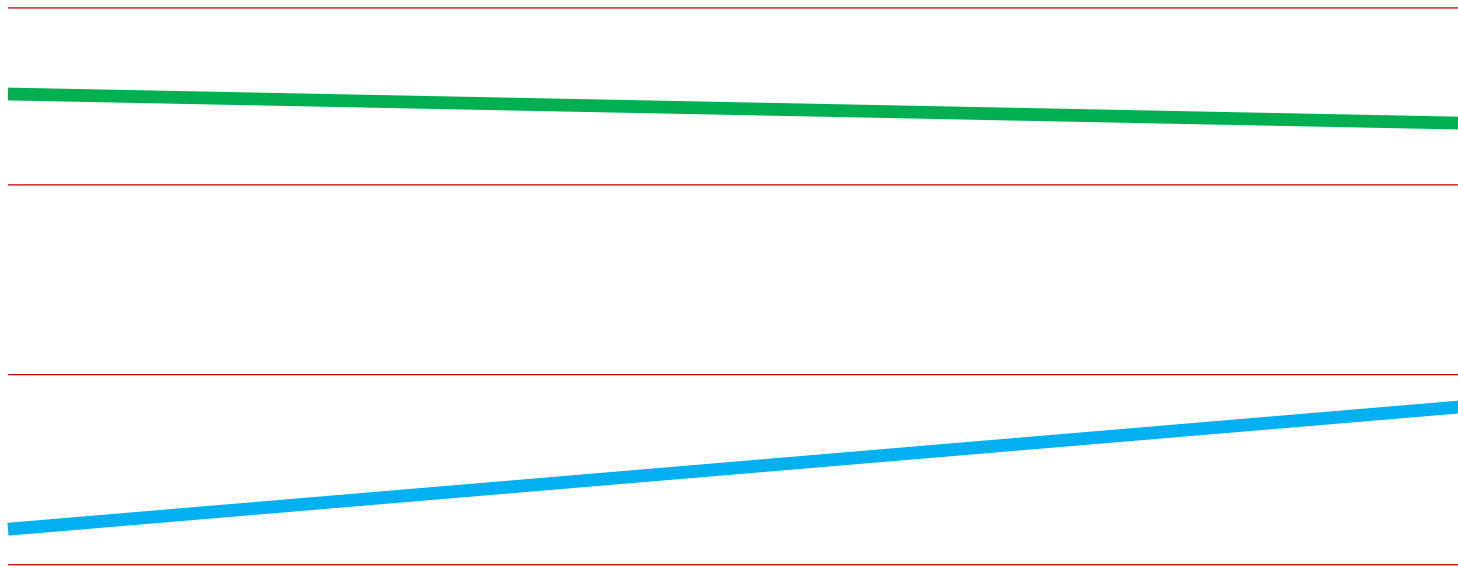




WIFI 5 Throughput and Latency



WIFI 6 **Throughput** and **Latency**

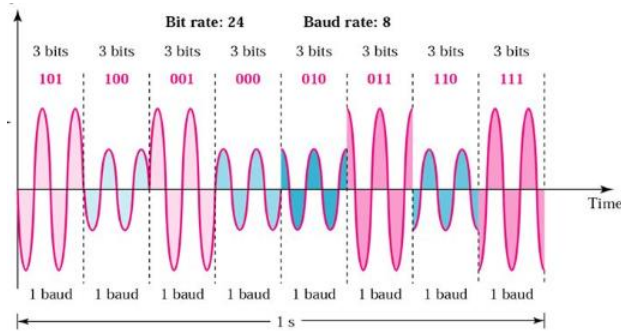


Something

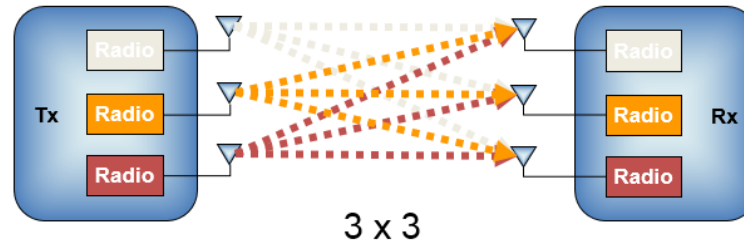
**obviously makes
the difference here!**



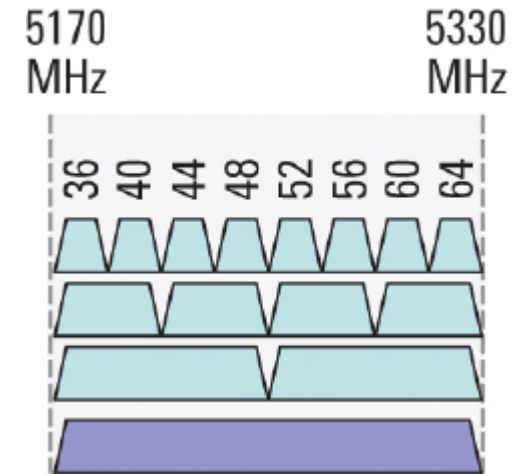
What has WIFI been improving for all these years?



Modulation Algorithm



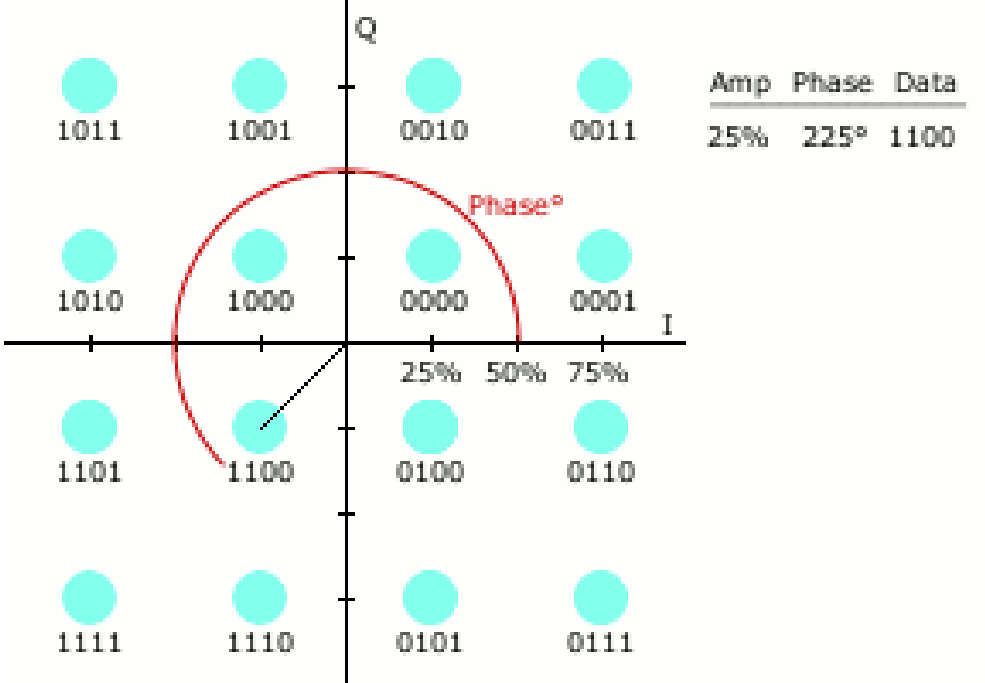
Spatial Streams



Channel Bonding

Modulation algorithm

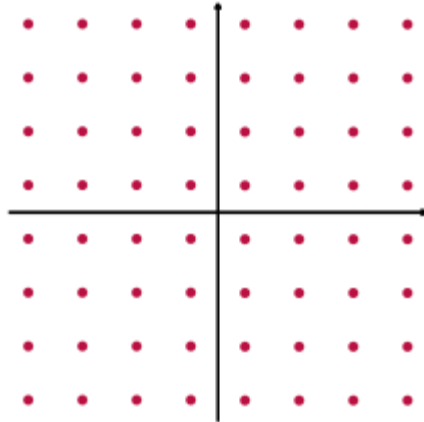
QAM



16 QAM



Wi-Fi 4



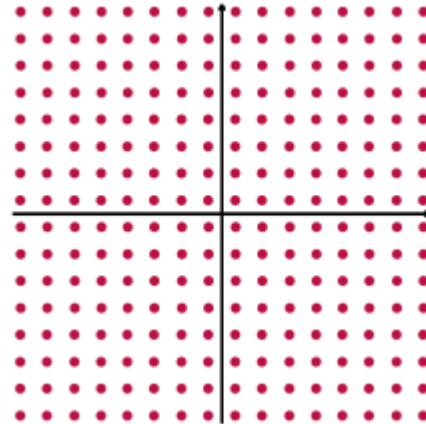
64 QAM

6 bit/symbol

~150 Mbps



Wi-Fi 5



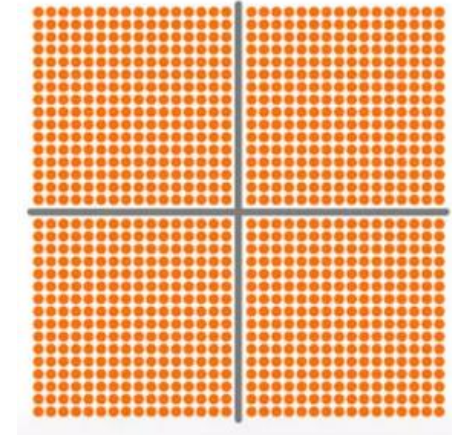
256 QAM

8 bit/symbol

~200 Mbps



Wi-Fi 6

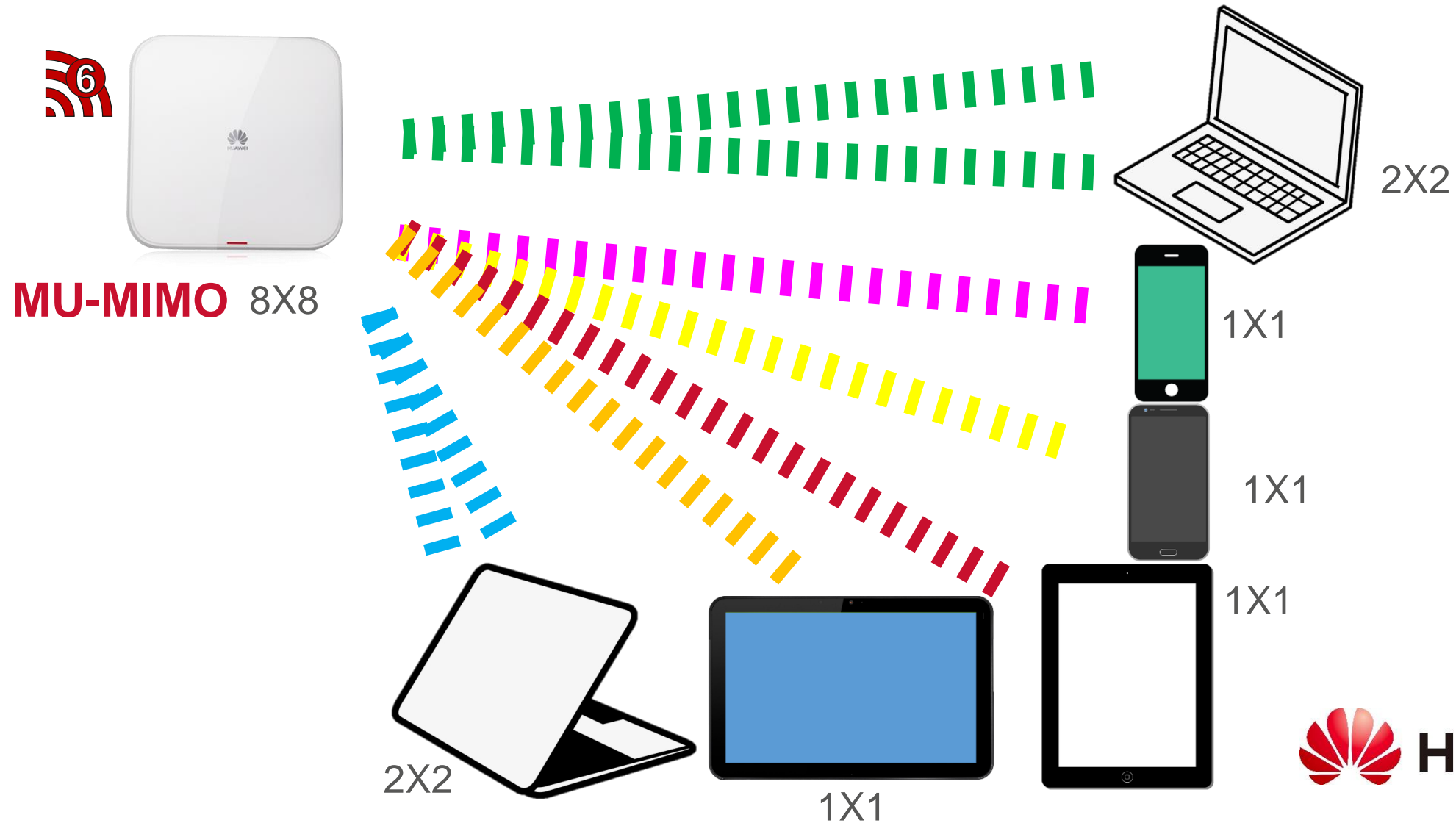


1024 QAM

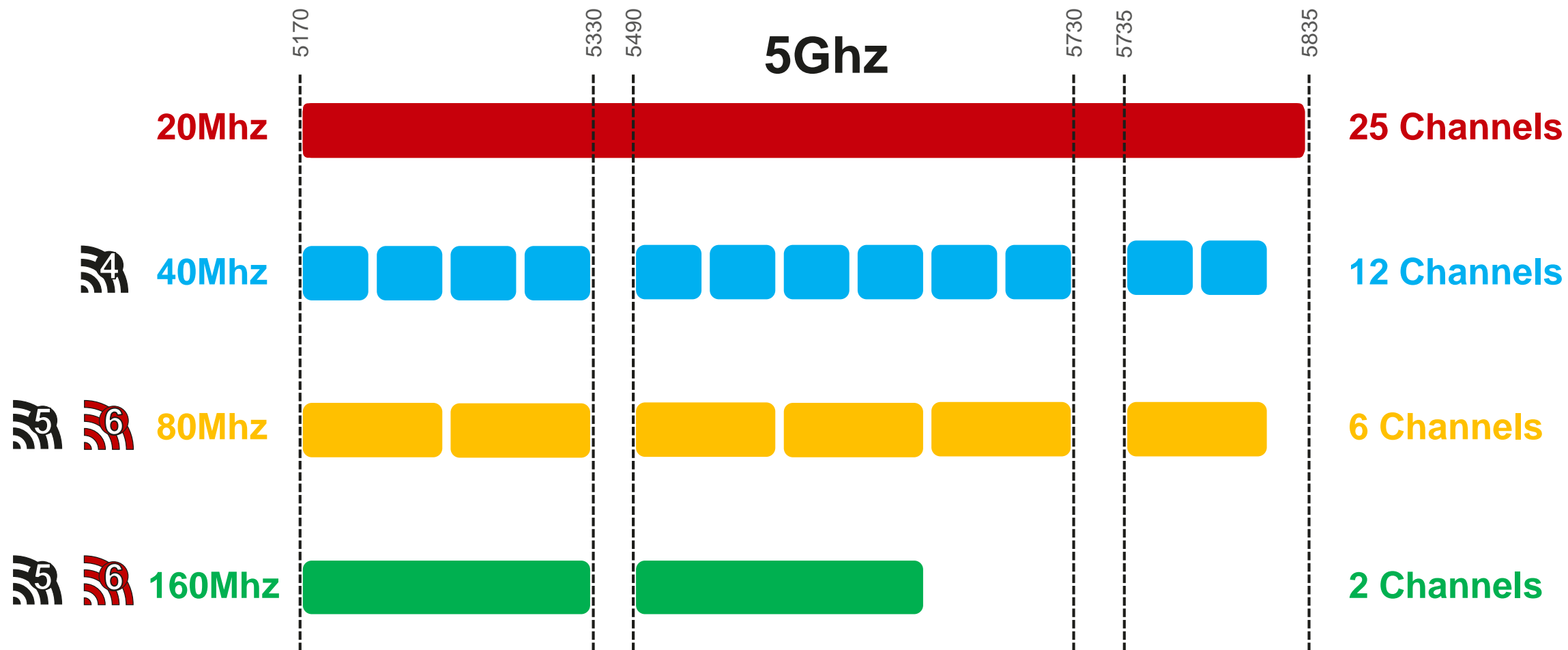
10 bit/symbol

~290 Mbps

Spatial Stream



Channel Bonding





Orthogonal

Frequency

Division

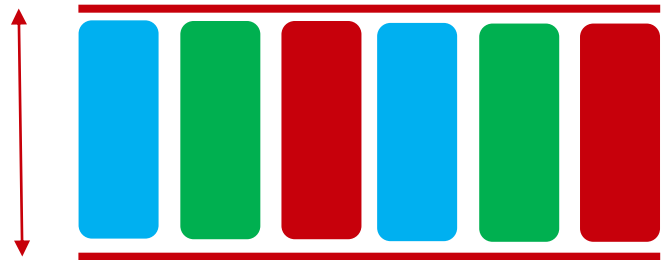
Multiple

Access

OFDM (WIFI 4 + WIFI 5)



20mhz



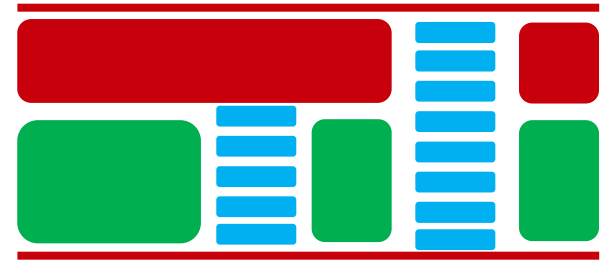
Time



OFDMA (WIFI 6)



20mhz

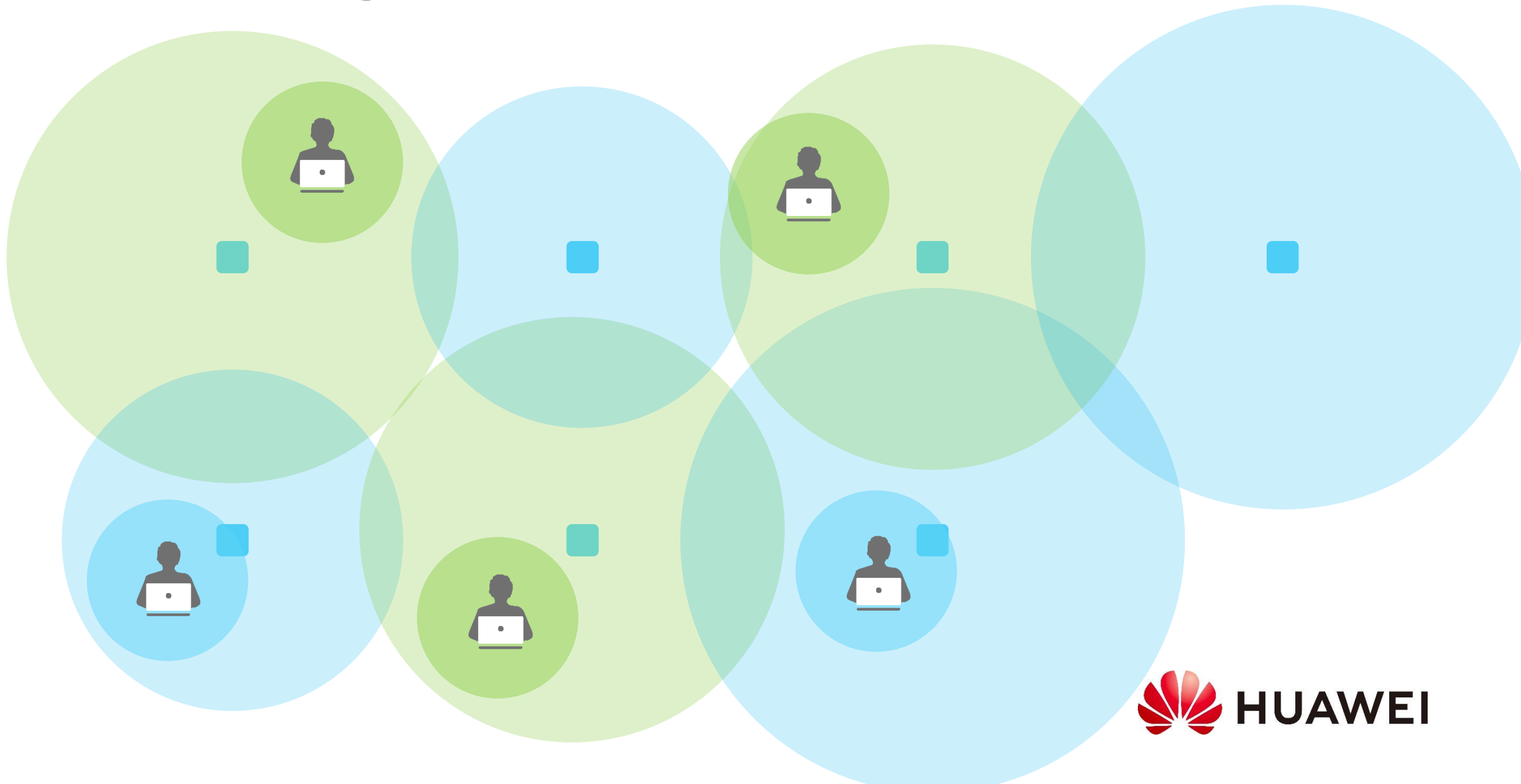


Time



X10

BSS Coloring



Recap WIFI 6 advantages

OFDMA	Latency - -	Capacity + +
BSS Coloring	Noise - -	Capacity + +
Modulation algorithm	Bandwidth + +	
Spatial Stream	Capacity + +	Bandwidth + +
Channel Bonding	Bandwidth + +	

Capacity



Big Classroom



Supermarket



Stadium



Up to 1024 devices/AP

Bandwidth + Latency

9.6 Gbps/AP + <100ms/station



4K/8K Video Streaming



Augmented Reality



Virtual Reality

Thank you.

把数字世界带入每个人、每个家庭、
每个组织，构建万物互联的智能世界。

Bring digital to every person, home, and
organization for a fully connected,
intelligent world.

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