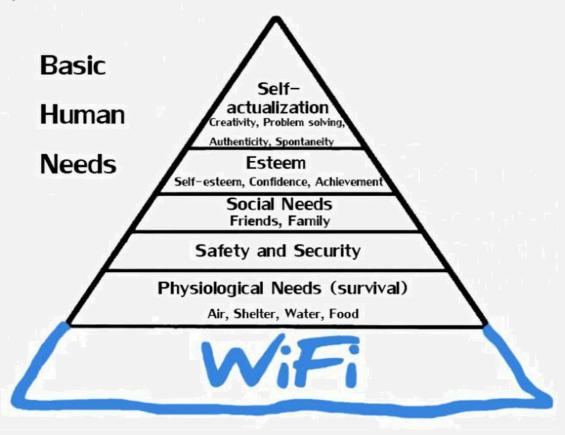








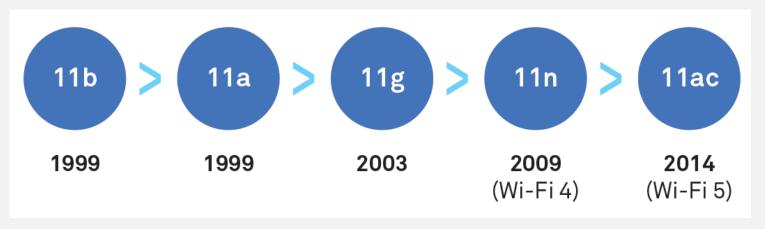
What is WiFi today?



The advance of technology is based on making it fit in so that you don't really notice it, so it becomes part of everyday life- Bill Gates

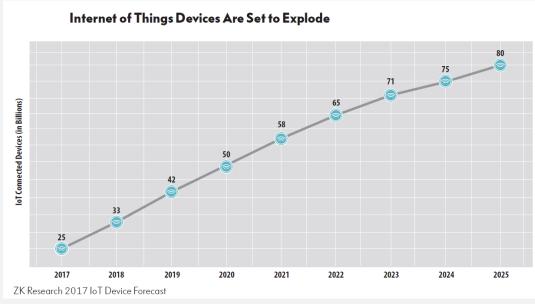
WiFi, so far...

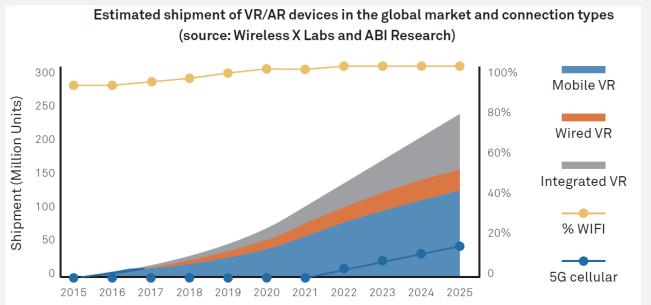




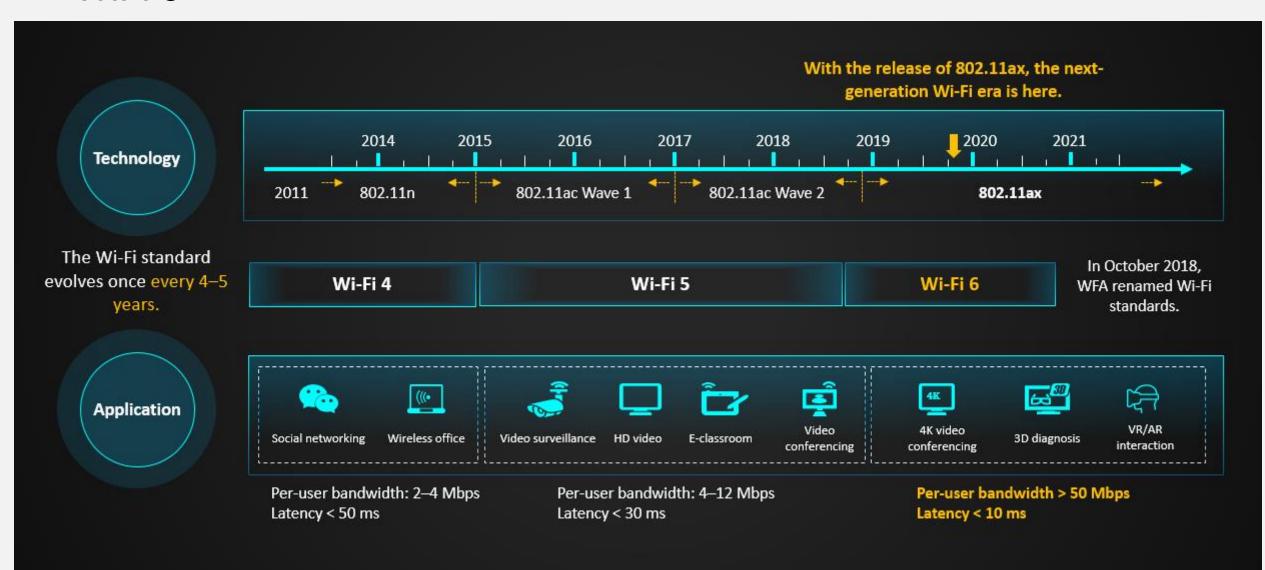
The next WiFi have to...

Bandwidth requirements of applications			
Scenario	Application	Bandwidth	Delay
Office	Video conferencing	30Mbit/s	100ms
	4K wireless display	50 Mbit/s (peak value)	50ms
	VoIP	512kbit/s	20ms
	360° VR live broadcasting	50 Mbit/s	10-20ms
	Conference live broadcasting	30 Mbit/s	50ms
Education	Mobile gaming	3 Mbit/s	80ms
	Interactive gaming	200 Mbit/s (full interaction)	10-20ms
	VR distance education	60 Mbit/s	10-20ms
Healthcare	AR	60 Mbit/s	20ms



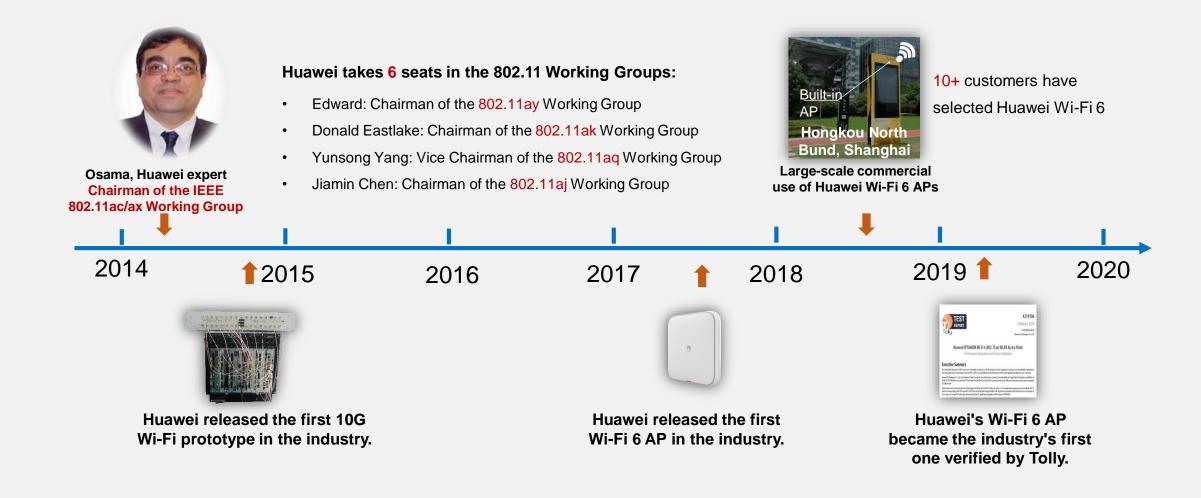


WiFi 6



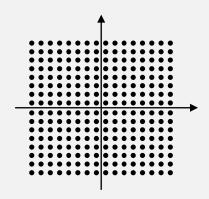
Huawei promotes the **Development** of the Wi-Fi 6 standard and industry

Huawei has submitted 163 new proposals, accounting for 25% of all proposals and ranking No.1



What does Wi-Fi 6 improve (vs Wi-Fi 5)?

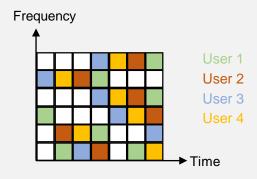
High Bandwidth



1024-QAM 8x8 MU-MIMO

- Up to 9.6 Gbps
- 4 x higher bandwidth

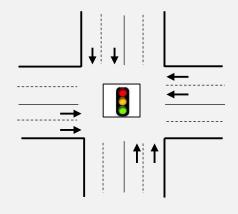
Large Capacity



UL/DL OFDMA
UL/DL MU-MIMO

- 1024 access users (per AP)
- 4 x higher concurrent capacity

Low Latency



OFDMA
Spatial Reuse

- Uplink ordered scheduling, latency reduced to 20 ms
- Average latency lowered by 50%

Low Power Consumption

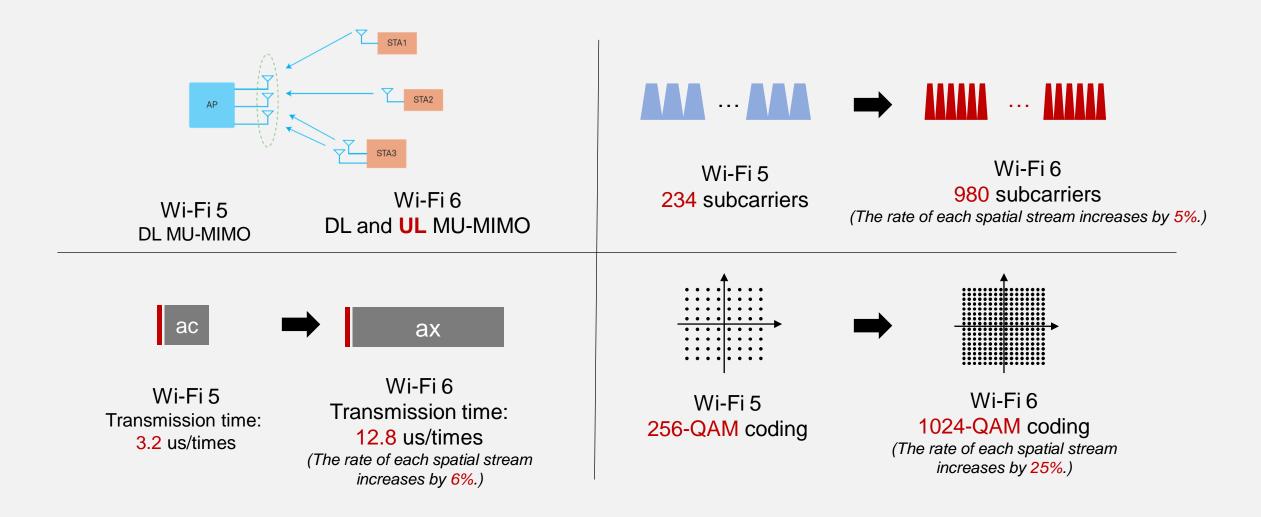


TWT 20MHz-Only

- Target time wakeup (TWT) mechanism
- Terminal power consumption reduced by 30%

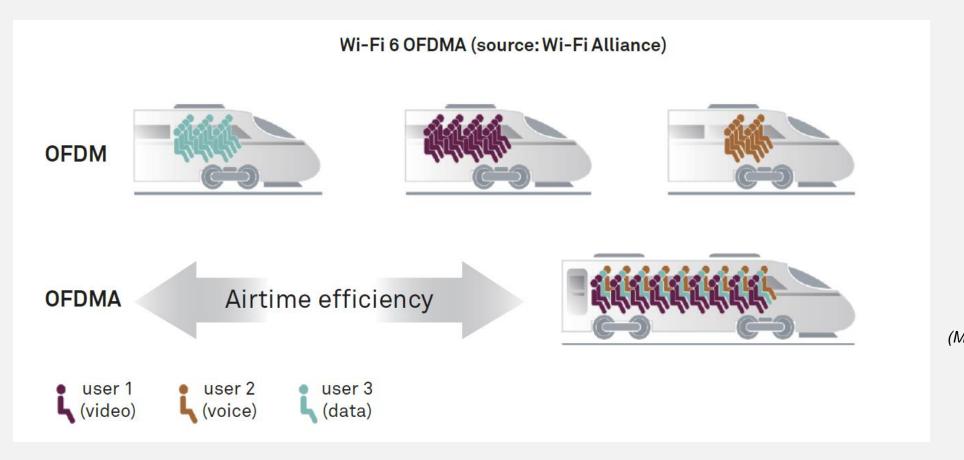
How Wi-Fi 6 improves Network Bandwidth

Factors affecting the Wi-Fi rate: UL MU-MIMO, subcarriers, signal transmission time, and coding mode



How Wi-Fi 6 improves Concurrent Capacity

Factors affecting the concurrent capacity: Spatial stream and spectrum utilization



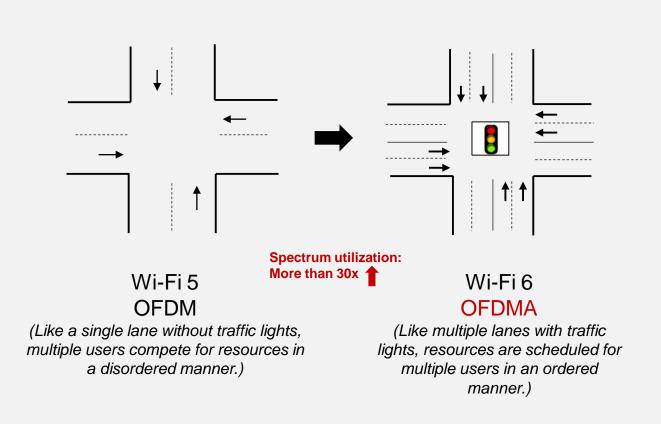
Wi-Fi 5
OFDM
(Each user exclusively occupies channel resources.)

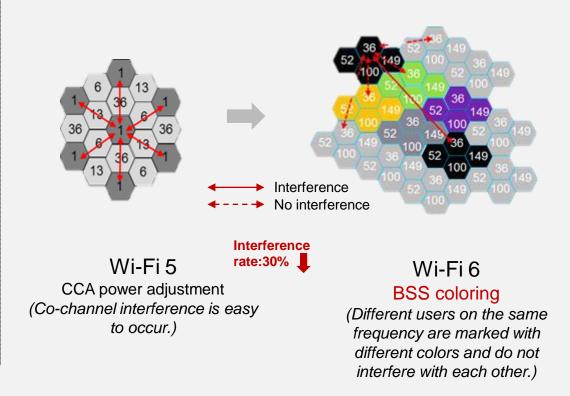
Wi-Fi 6
OFDMA
(Multiple users share channel resources.)

Spectrum utilization: More than 30x

How Wi-Fi 6 reduces the Network Latency

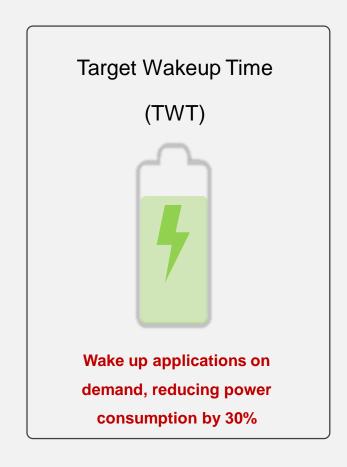
Factors affecting the Wi-Fi network latency: Spectrum utilization and air interface quality

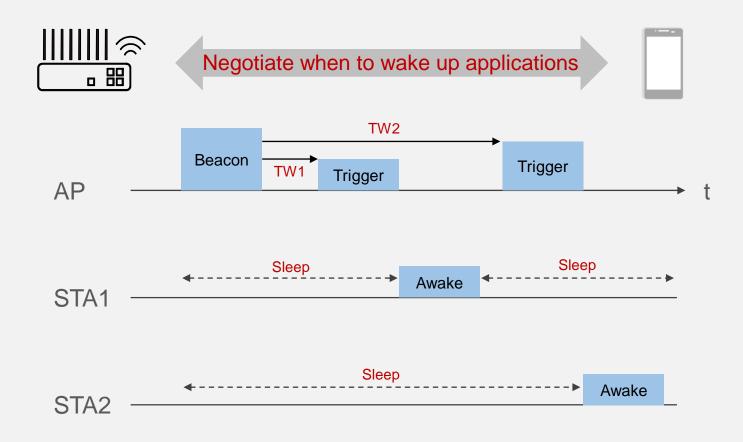




How Wi-Fi 6 lowers the Power Consumption

Factor affecting the battery service life of terminals: High power-consuming applications







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.

Copyright©2018 Huawei Technologies Co., Ltd. All Rights Reserved.

The information in this document may contain predictive statements including, without limitation, statements regarding the future financial and operating results, future product portfolio, new technology, etc. There are a number of factors that could cause actual results and developments to differ materially from those expressed or implied in the predictive statements. Therefore, such information is provided for reference purpose only and constitutes neither an offer nor an acceptance. Huawei may change the information at any time without notice.

Huawei Confidential

