



The Wi-Fi 6E Market

How the 6 GHz band is fueling global innovation

June 2021



Agenda:



Why 6 GHz Wi-Fi?



Why the Full 6 GHz Band?



Global Regulatory Momentum



The Wi-Fi 6E Market Explodes



Broadcom's Chips Introduced



Wi-Fi 6E Product Demos

Why 6 GHz Wi-Fi?



Wi-Fi = Broadband



**Digital
Inclusion/
Empowerment**



**Enabling
5G Services**

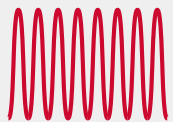
Why the Full 6 GHz Band?



Equipment on the market is already designed to operate **over the entire band**



Enterprises and dense urban environments **require more channels** to work effectively

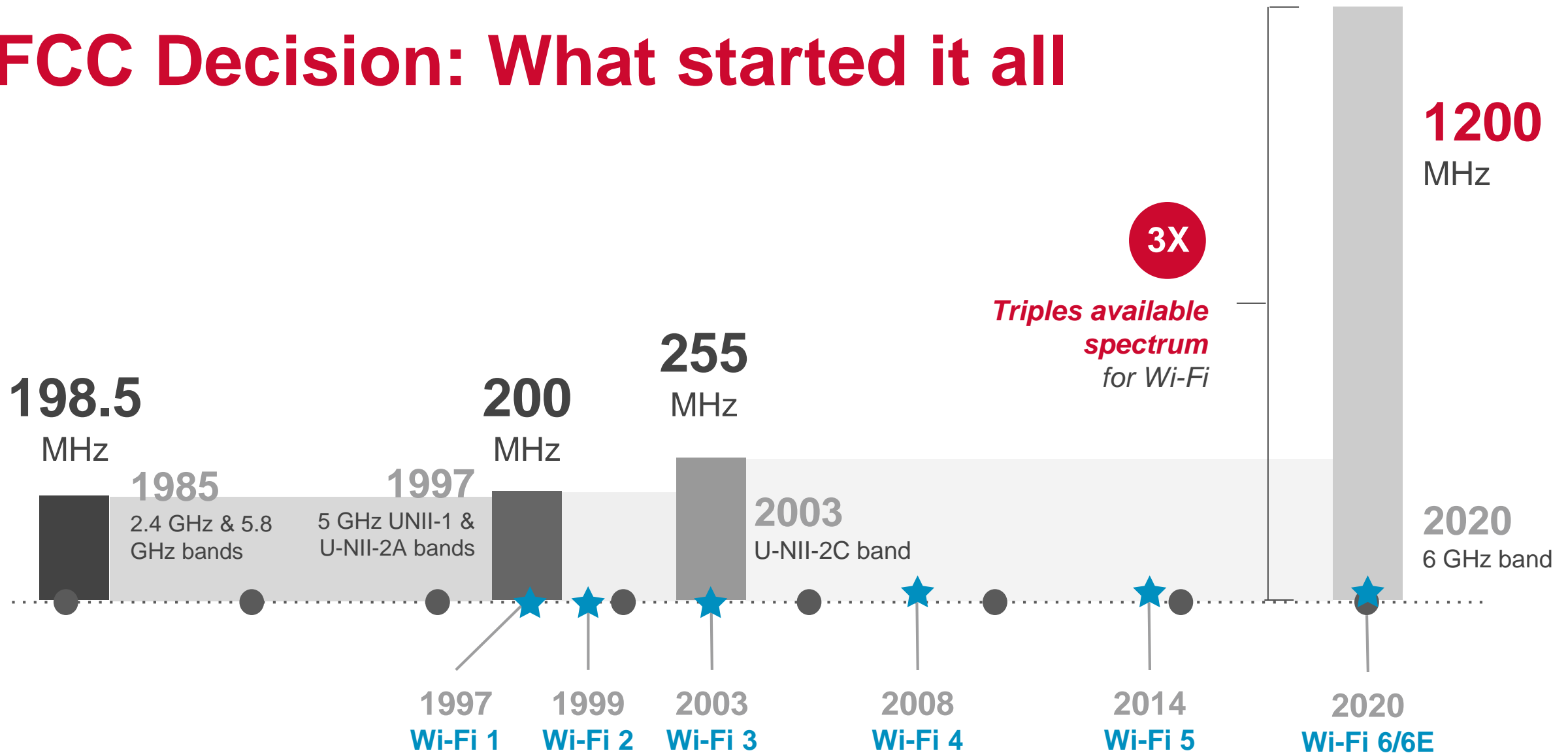


Wi-Fi 7 will work most efficiently and cost effectively if the **whole band is allocated**

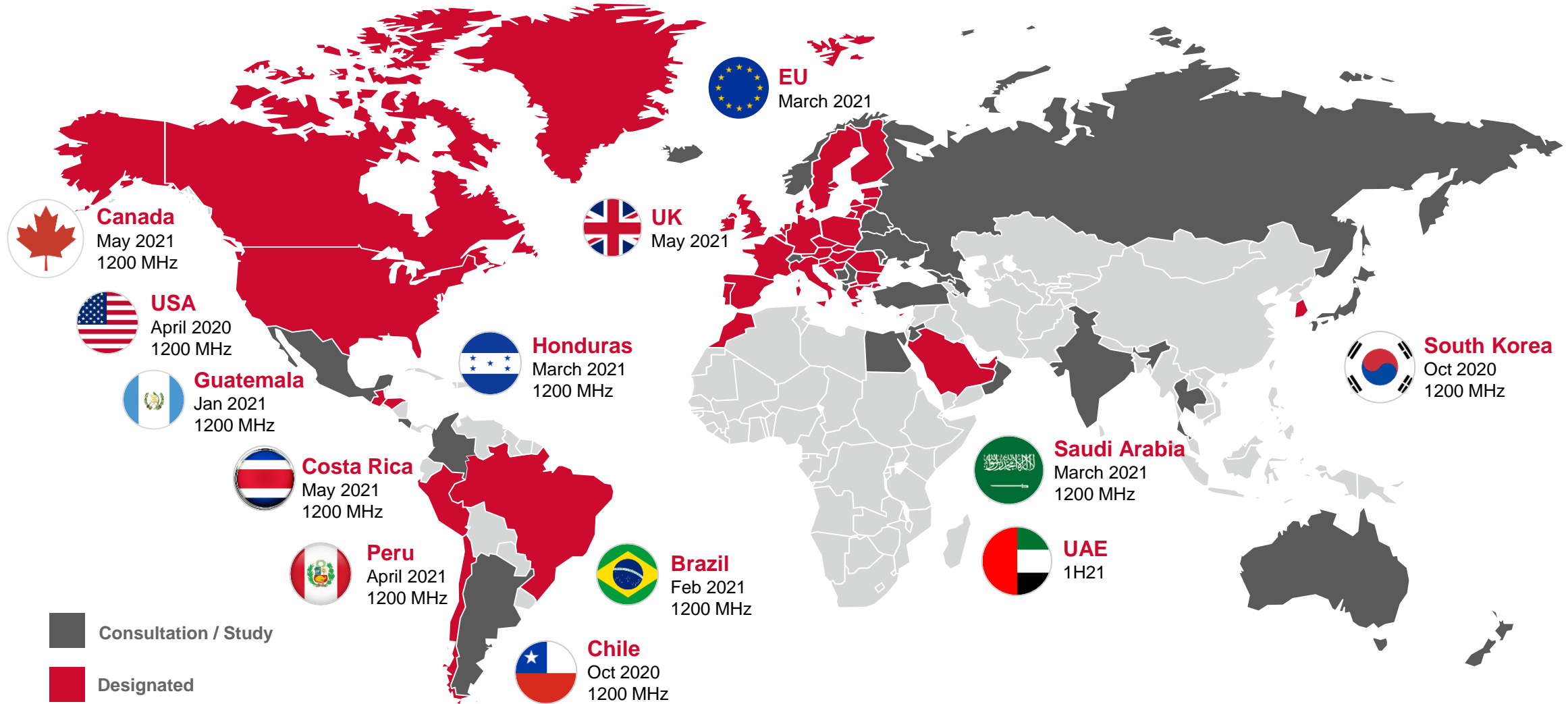


Alternatives are **speculative**

FCC Decision: What started it all



54% of world's GDP has already designed a portion of the 6 GHz band - powerful momentum for full band



Fast facts on 6 GHz band Wi-Fi



1,200 MHz of spectrum available for Wi-Fi in over 31% of the world's economy*



If worldwide availability, **\$512 billion** incremental global economic benefit **by 2025****



Unlocks unlicensed innovation **for the next 25 years**



Designed for **digitally immersive experiences**



2 Gbps speeds



Supports **5G performance**



< 1 ms latency



Helps **telemedicine** and **education**

* International Monetary Fund 2021 Estimate

** Economic Value of Wi-Fi: A Global View (2021-2025)

Broadcom: **First** to enable full Wi-Fi 6E ecosystem



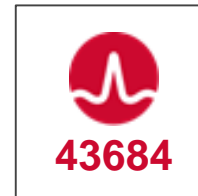
Smartphone



2x2
160 MHz



Consumer Access
Point, Extenders



4x4
160 MHz



3x3
80 MHz



2x2
80 MHz



Dual 2x2
80 MHz



Enterprise Access
Point



4x4
160 MHz



3x3
80 MHz



2x2
80 MHz



Dual 2x2
80 MHz

**Samsung Galaxy S21 Ultra sports
Wi-Fi 6E thanks to Broadcom**



Wi-Fi 6E arrives at CES 2021



**8K TV sales forecast
to hit 72 million by 2025**

WHAT HI*FI?

**Samsung launches Galaxy Book Pro Windows 10
laptops with OLED screens and Wi-Fi 6E**

betanews

Wi-Fi 6E Proliferates

The Wi-Fi industry is already taking advantage of the FCC's 2020 decision to allow unlicensed services in the 6 GHz band.

- The Wi-Fi Alliance projects **over 338 million Wi-Fi 6E devices** will enter the market in 2021 alone.
- Wi-Fi 6E — **Thirty-three Wi-Fi 6E devices** have already been certified by the Wi-Fi Alliance. |
- Netgear, TP-Link and ASUS access points (routers) available in the market.
- Samsung GS-21 Ultra is first Wi-Fi 6E smartphone, and MediaTek and Intel introduced Wi-Fi 6E platforms for PCs.

Summary

- Unmistakable regulatory and product momentum for 6 GHz Wi-Fi in 2021
- Why wait?
 - Wi-Fi 6E equipment is already available in the market and works over the entire band
 - Wi-Fi 7 works most effectively over the entire 6 GHz band
 - Other options are speculative at best



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