



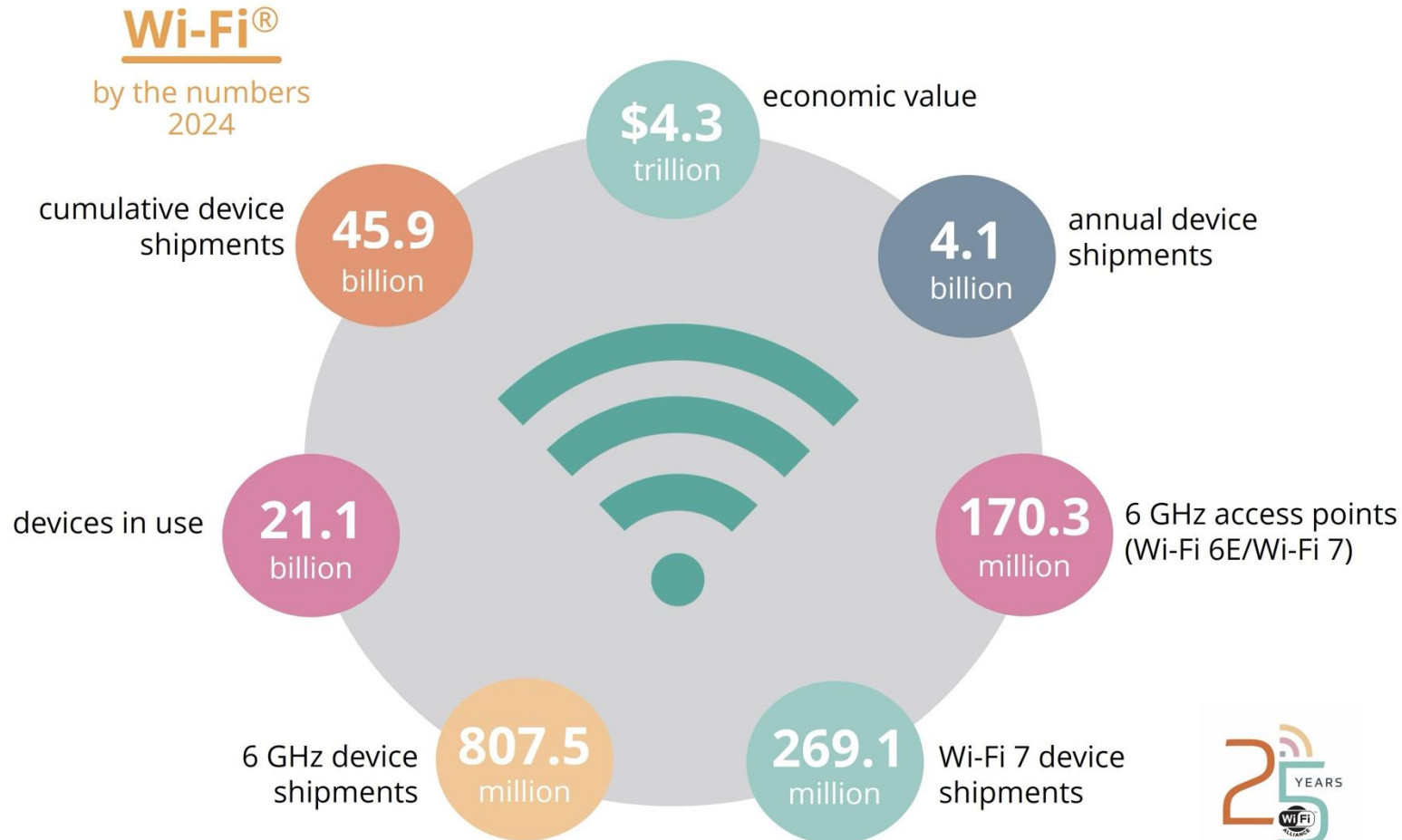
Hewlett Packard
Enterprise

6 GHz: What it means for Wi-Fi 6E and 7

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Economic Value



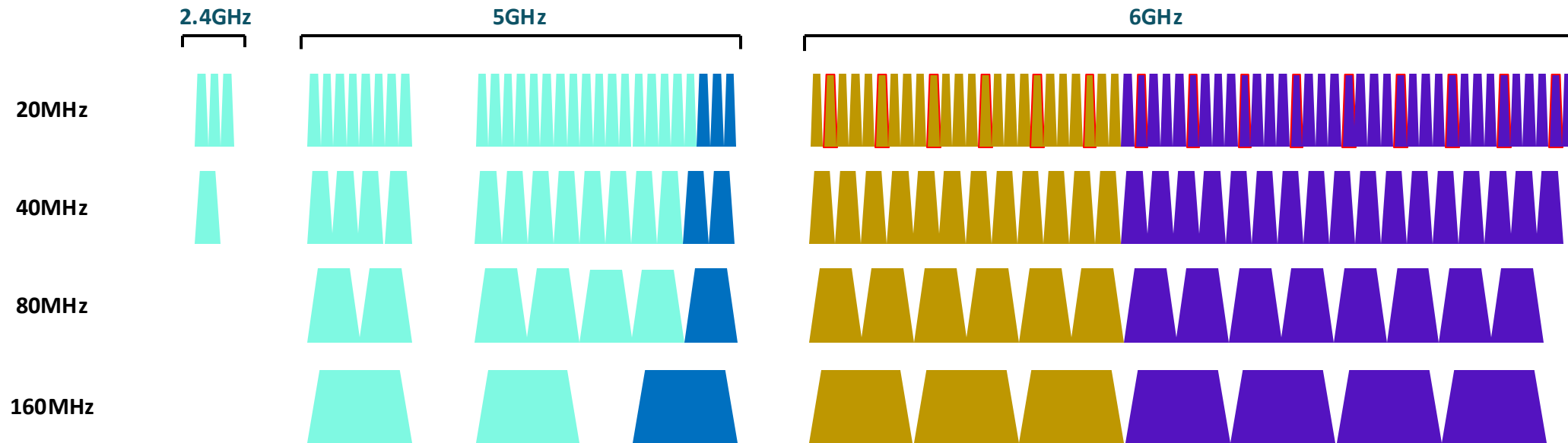
Sources:
ABI Research
IDC Research
Telecom Advisory Services



Image from Wi-Fi Alliance

- All HPE Wi-Fi 7 APs are 6GHz capable
- HPE is deploying standard power devices in large public venues in the U.S. with the use of an AFC

Wi-Fi 6E – 6 GHz band



- **Potential** for 59 20MHz channels, 29x 40MHz, **14x 80MHz**, **7x 160MHz** (59 / 29 / 14 / 7)
- **In regions and countries** limited to the lower 500MHz (U-NII-5) potential for 24 20MHz channels (24 / 12 / 6 / 3)
- Wider channels for higher throughput, network performance and reduced airtime
- Expect ~600Mbps per stream using an 80MHz channel or ~1200Mbps per stream using a 160MHz channel



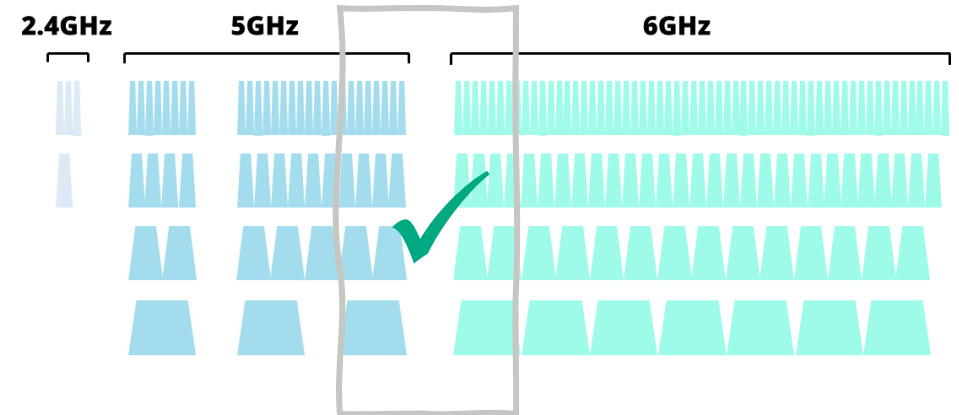
Maximize the 6 GHz band value with patented Ultra Tri-band (UTB) filtering

Up to 30% increase in usable 6 GHz channels

5 GHz to 6 GHz filtering is a challenge

To avoid interference, traditional filters prevent use of adjacent 6GHz channels

Resulting in sacrifice of lower eight 6GHz channels - for Europe, that's a third of the 6 GHz band



Wi-Fi 6/6E vs Wi-Fi 7 comparison

Feature	Wi-Fi 6E	Wi-Fi 7
<u>Band</u>	<ul style="list-style-type: none">• 2.4 GHz, 5 GHz, & 6 GHz	<ul style="list-style-type: none">• 2.4 GHz, 5 GHz, & 6GHz
<u>Channel Width</u>	<ul style="list-style-type: none">• 160 MHz	<ul style="list-style-type: none">• 320 MHz
<u>QAM</u>	<ul style="list-style-type: none">• 1024 QAM	<ul style="list-style-type: none">• 4096 QAM
<u>MLO</u>	<ul style="list-style-type: none">• No	<ul style="list-style-type: none">• Yes
<u>Max Speed</u>	<ul style="list-style-type: none">• Up to 9.6 Gbps	<ul style="list-style-type: none">• Up to 46 Gbps



Thank you

