

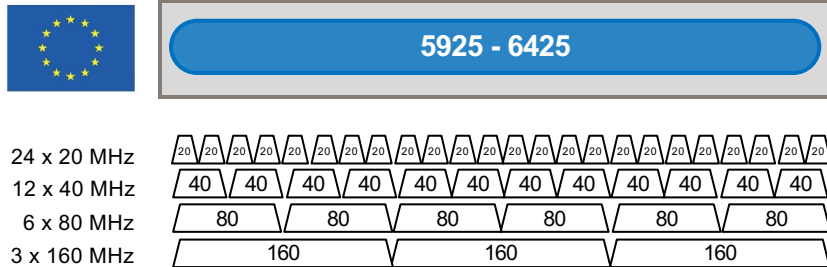
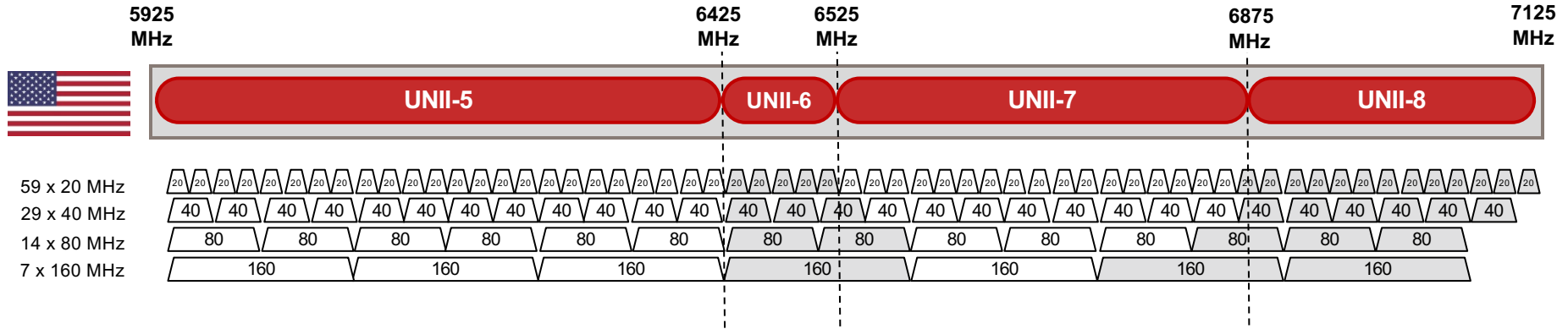


a Hewlett Packard  
Enterprise company

# The 6 GHz Band: Say Goodbye to the Stone Age of Wi-Fi

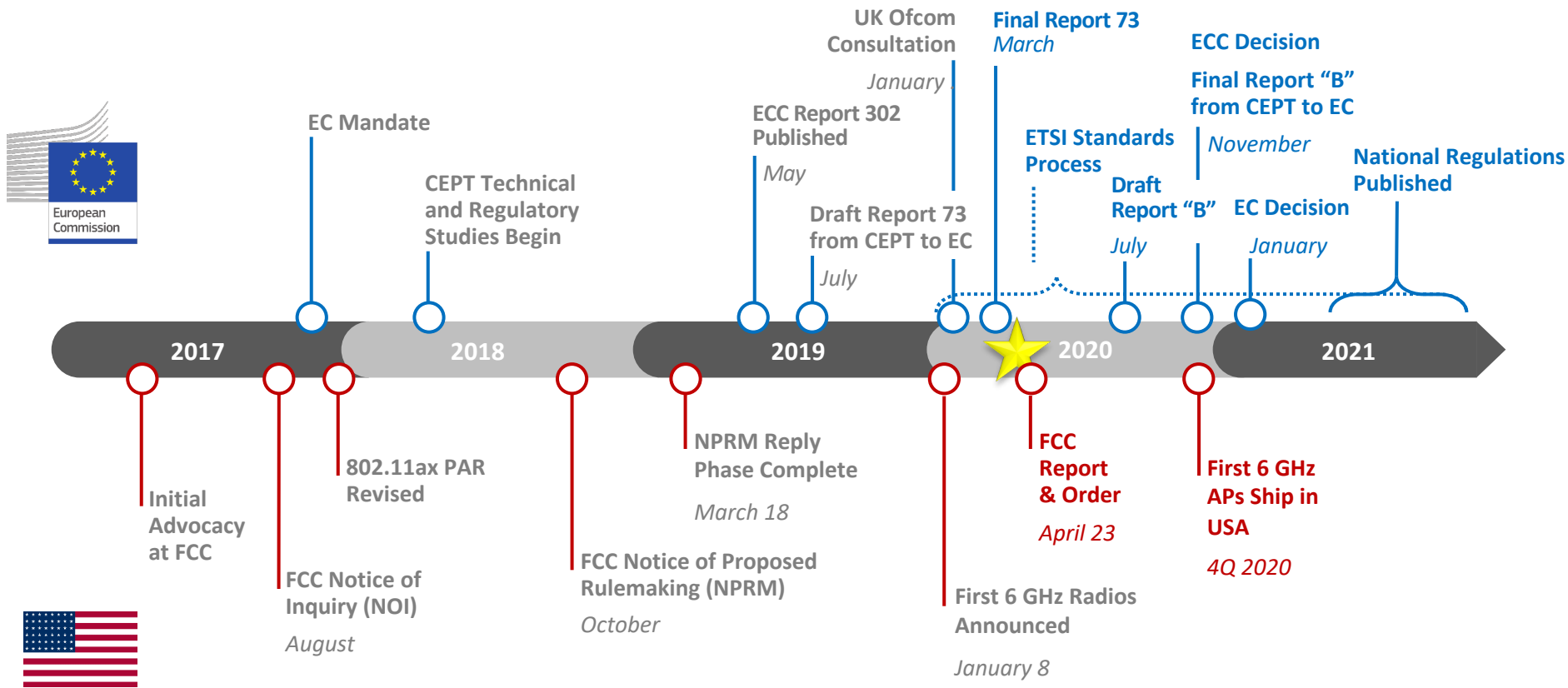
Chuck Lukaszewski  
*VP, Wireless Strategy & Policy*

# Bands & Channelization Under Study in US & EU/CEPT



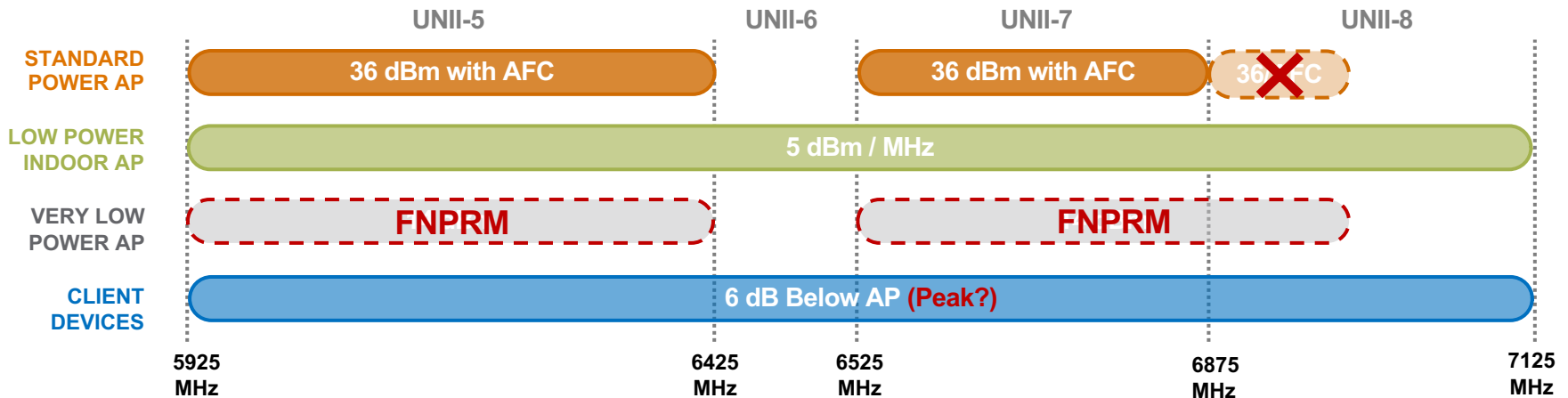
**500 Megahertz** & **1.2 Gigahertz**  
**in Europe** & **in USA**

# 6 GHz Timeline



# US Draft Report & Order Outcome

- Indoor low power across the entire band without AFC @ 5 dBm/MHz; Prohibition on connectors
- Automated Frequency Coordination (AFC) required in UNII-5/7 for “full” power indoor and all outdoor APs
- FNPRM on “Very Low Power” class for portable APs and short-range applications



# 5 GHz EIRP vs. 6 GHz Power Spectral Density for Low Power Indoor

Channel Width	20 MHz	40 MHz	80 MHz	160 MHz	320 MHz
Noise floor vs. 20MHz	+0 dB	+3 dB	+6 dB	+9 dB	+12 dB
<b>5 GHz UNII-2b EIRP (Constant)</b>	30 dBm	30 dBm	30 dBm	30 dBm	30 dBm
PSD	17 dB	14 dB	11 dB	8 dB	5 dB
<b>"Net" EIRP</b>	<b>30 dBm</b>	<b>27 dBm</b>	<b>24 dBm</b>	<b>21 dBm</b>	<b>18 dBm</b>
<b>6 GHz LPI EIRP</b>	18 dBm	21 dBm	24 dBm	27 dBm	30 dBm
<b>PSD (Constant)</b>	5 dB	5 dB	5 dB	5 dB	5 dB
<b>"Net" EIRP</b>	<b>18 dBm</b>	<b>18 dBm</b>	<b>18 dBm</b>	<b>18 dBm</b>	<b>18 dBm</b>