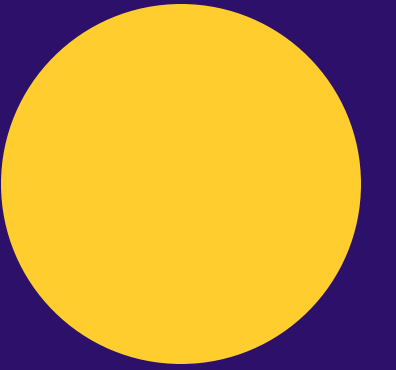




Connectivity's next decade depends on **6 GHz Wi-Fi®**

Paramjit Singh Puri

Director Membership, Wi-Fi Alliance®

IAFI – World Wi-Fi Day

2026

Wi-Fi® happens here.





6 GHz is already reshaping Wi-Fi's future.



6 GHz is moving fast

Across 5 million Cisco networks, the data is unambiguous

60%

Growth in 6 GHz clients going live in 2025

23%

Increase in Wi-Fi 6E and Wi-Fi 7 access point deployments in the second half of 2025

59%

Of organizations plan to deploy Wi-Fi 6E or Wi-Fi 7 within the next year

Remember, 6 GHz doubled Wi-Fi® spectrum

(Cisco, 2026)



Same room, same students, different spectrum

Wi-Fi Alliance demonstrating the impact of 6 GHz Wi-Fi at a teaching hospital in Thailand

SETUP	USE CASES	SCENARIOS
6 access points, 200 students	Immersive XR for medical education and dense classroom deployment	Lower 500 MHz of 6 GHz versus full 1,200 MHz of 6 GHz

LOWER 500 MHZ OF 6 GHZ

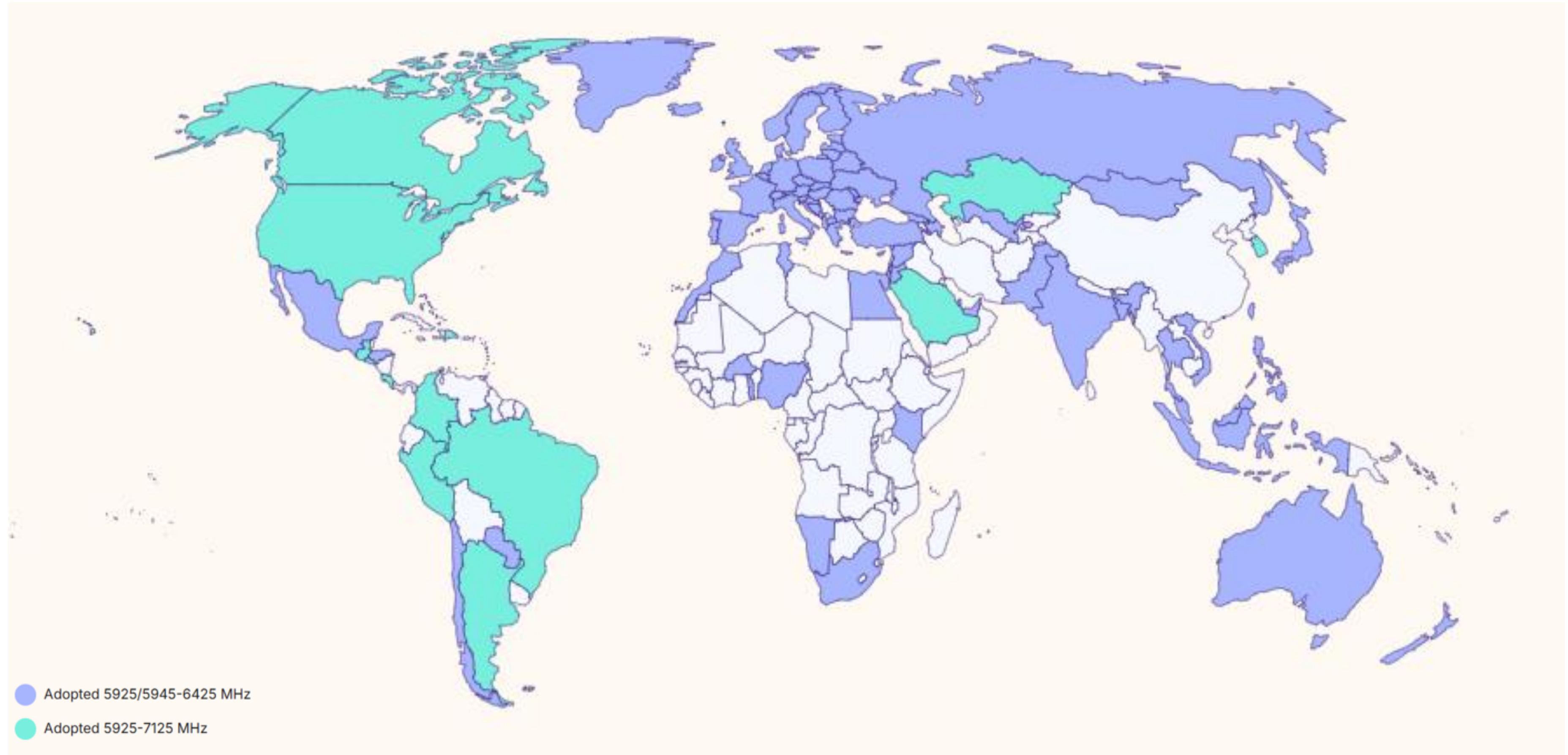
- ⊖ Lag in XR application: risk of motion sickness
- ⊖ Glitches and buffering on 8K video
- ⊖ Slow, repeatedly aborted file transfers

FULL 1,200 MHZ OF 6 GHZ

- ✓ Smooth XR operation
- ✓ Seamless 8K streaming
- ✓ High-speed file transfers
- ✓ Full utilization of network capacity



Wi-Fi's regulatory future happens here



THE TIMES THEY ARE A-CHANGIN'

Standard Power 6 GHz: there is nothing standard about it

Standard Power turns 6 GHz from room-scale performance into building-scale connectivity.

1

Persistent, powerful connectivity

Transitioning between indoor and outdoor without interrupting 6 GHz-tier capacity and throughput

2

Expanded coverage without compromise

Economical single-AP deployments supporting the full footprint of homes and businesses

3

Enabling AI evolution

Creating the network performance potential that opens the door for new AI use cases

The way we talk about Standard Power 6 GHz will soon match its impact on connectivity.



Proprietary | © Wi-Fi Alliance

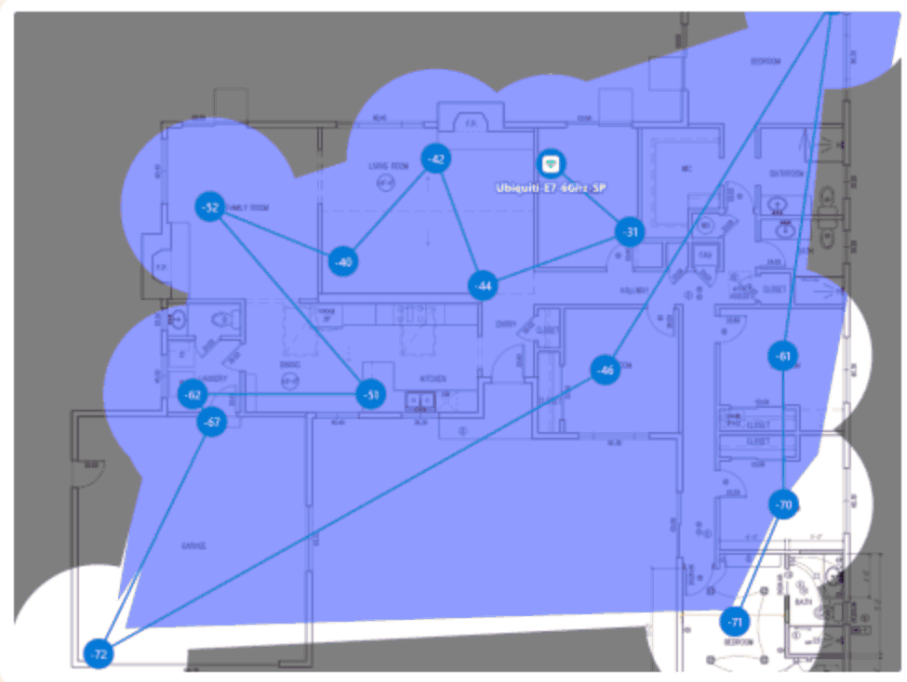
Connectivity's next decade depends on 6 GHz Wi-Fi® 7

Closing the residential 6 GHz coverage gap

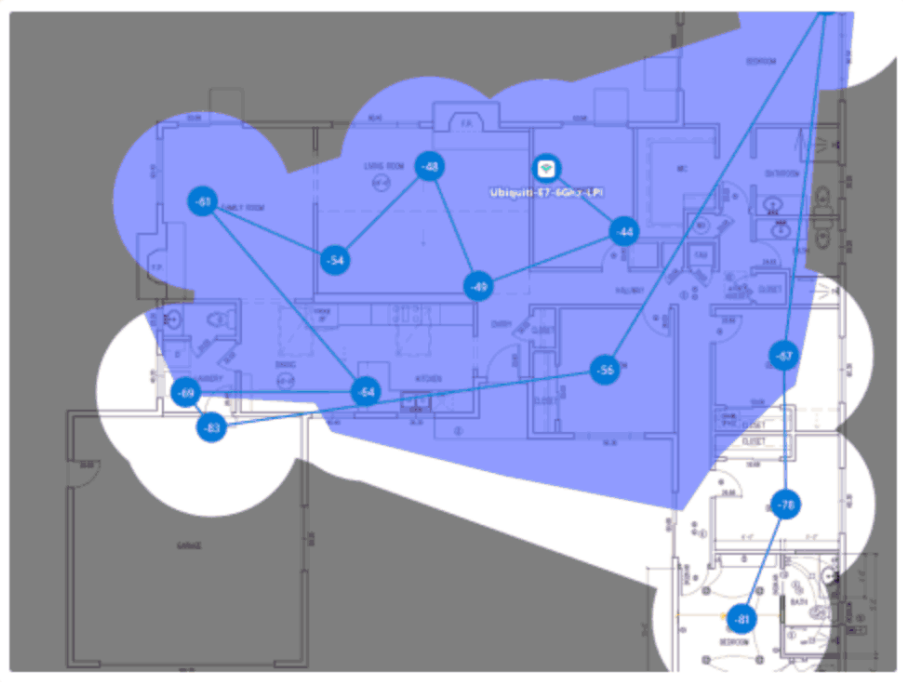
14 test points · single-family home · 11–64 ft from the AP · line-of-sight (LOS) and non-line-of-sight (NLOS)

6 GHz FREQUENCY BAND COVERAGE

Standard Power



LPI



14 / 14
STANDARD POWER

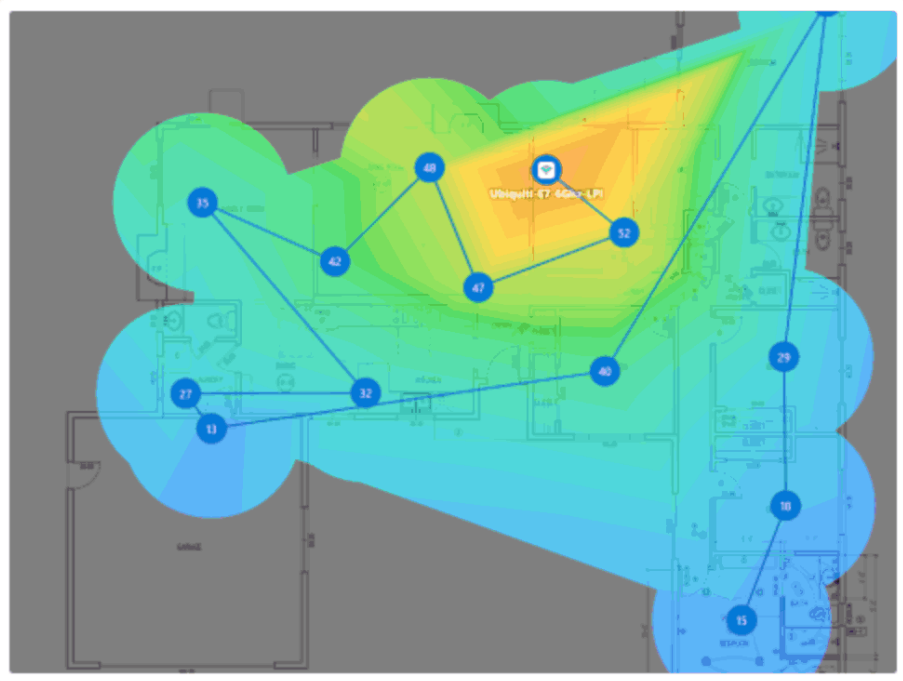
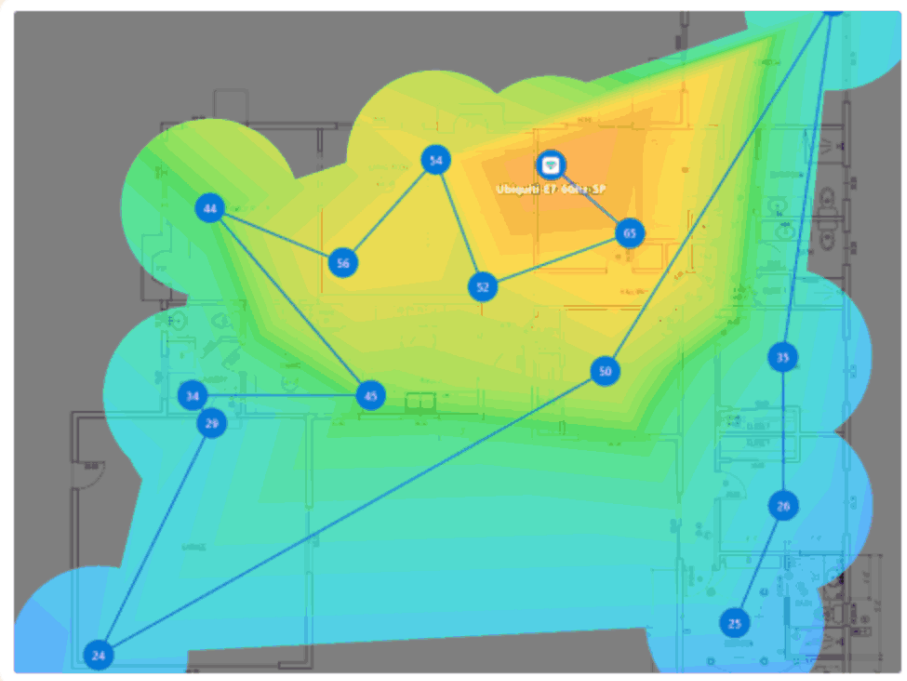
10 / 14
LPI

Standard Power reached every test point while LPI failed on 4 of 14

+3

Rooms gained that LPI could not reach

SIGNAL-TO-NOISE RATIO



1,131 Mbps vs 731 Mbps

Downlink throughput in the laundry room at 40 ft. from the AP

TAKEAWAY

Standard Power can make 6 GHz a whole-home experience, not a same-room experience.

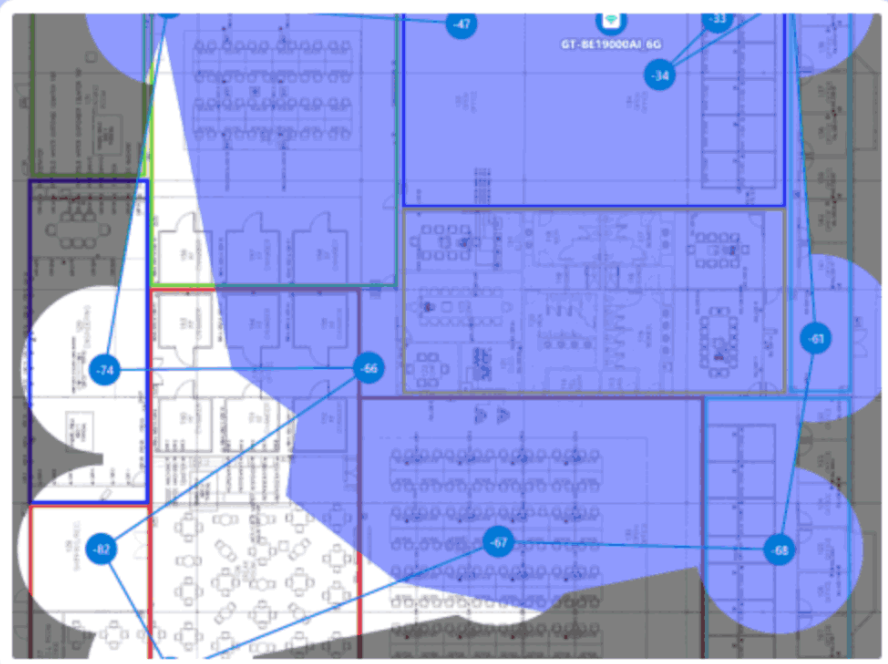


Single-AP 6 GHz across the office floor

10 test points · large commercial office · 35–190 ft from the AP · line-of-sight (LOS) and non-line-of-sight (NLOS)

6 GHz FREQUENCY BAND COVERAGE

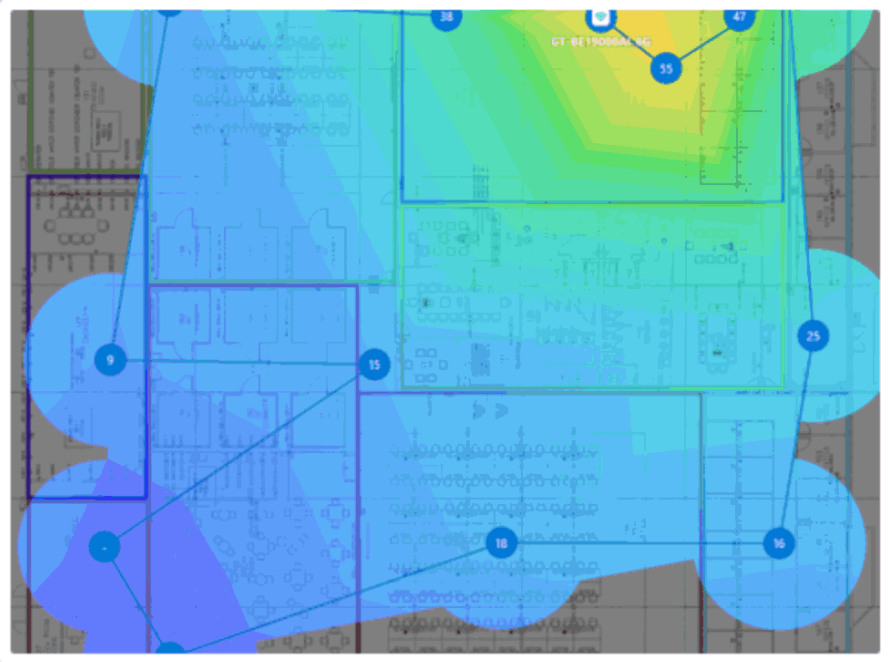
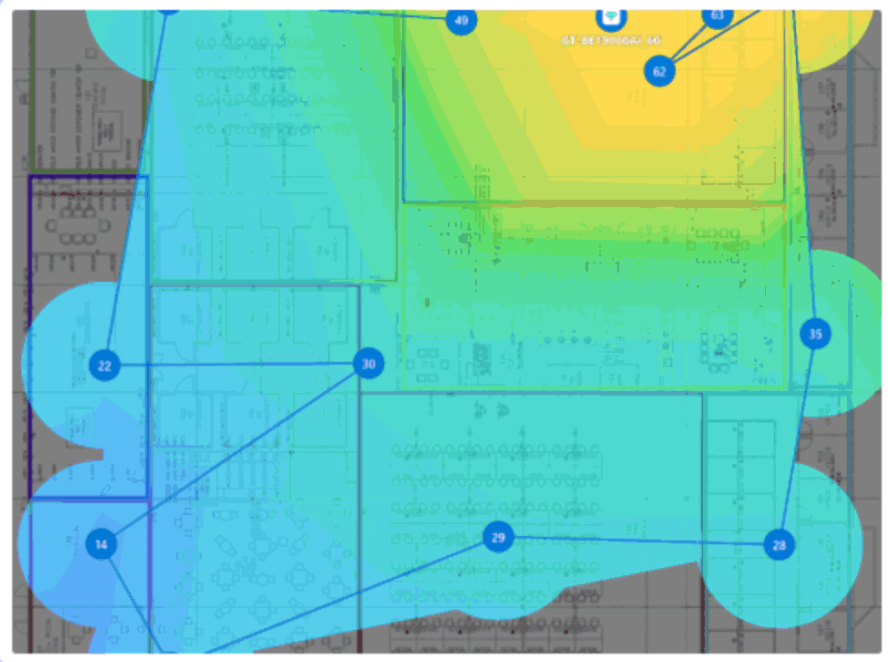
Standard Power



LPI



SIGNAL-TO-NOISE RATIO



10 / 10

STANDARD POWER

8 / 10

LPI

Standard Power reached every test point while LPI failed on 2 of 10

+2

Perimeter locations gained that LPI could not reach

230.1 Mbps vs 39.9 Mbps

Downlink throughput at 145 ft. from the AP

TAKEAWAY

Standard Power covers larger office footprints with less costly infrastructure and simplified deployments

And it's showing no signs of slowing down

\$2.8B

Wi-Fi 7 market valuation in 2025
(USD)

Source: Business Research Company, 2025

15%

Wi-Fi device shipments were
Wi-Fi 7 in 2025

Source: IDC Research, 2025

159.4 M

Wi-Fi 7 consumer shipments in
2026

Source: IDC Research, 2026

583.2M

Wi-Fi 7 product shipments in
2025

Source: IDC Research, 2025

1.1B

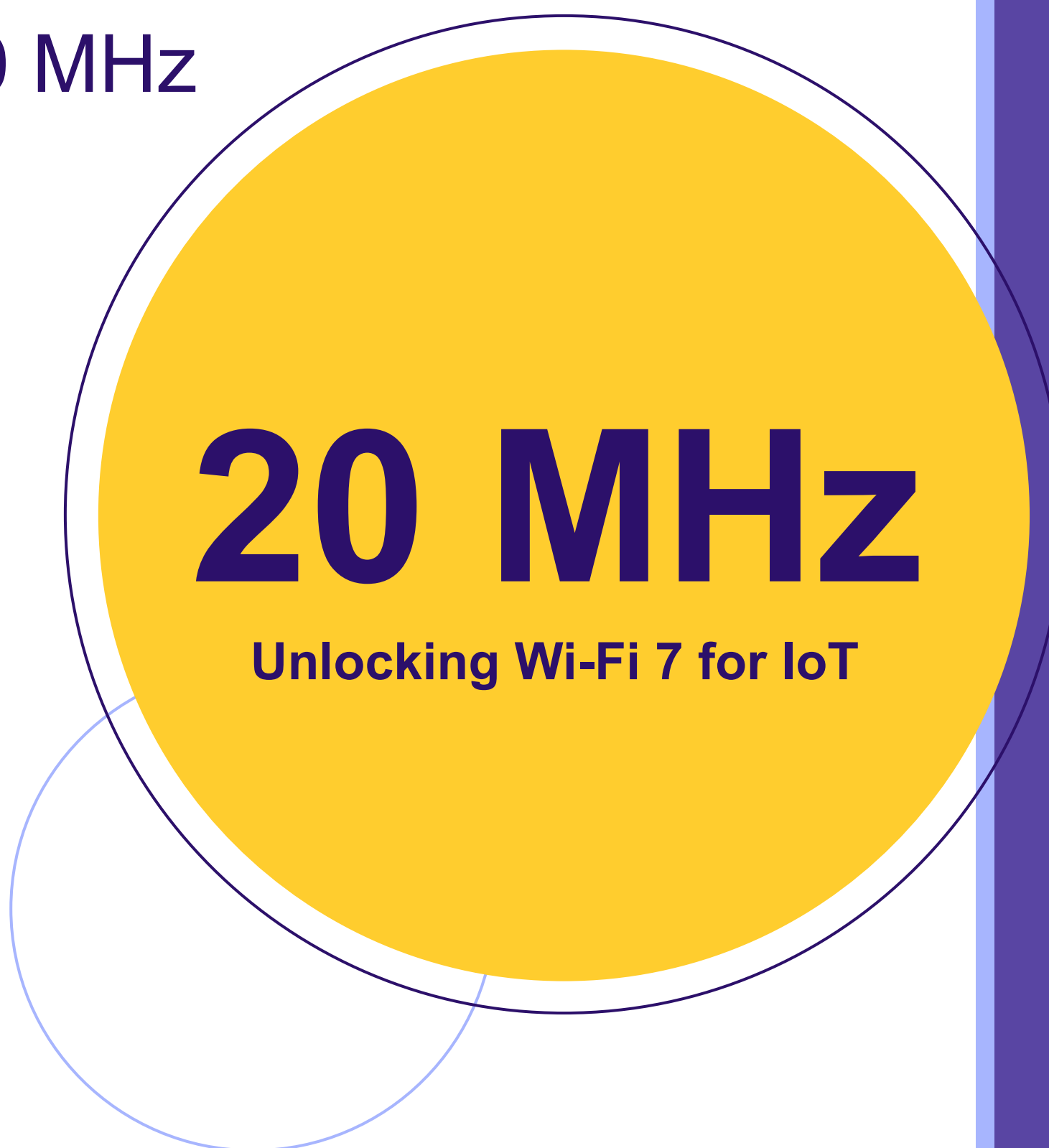
Wi-Fi 7 product shipments
expected in 2026

Source: IDC Research, 2025

The latest in Wi-Fi 7: Wi-Fi CERTIFIED extends Wi-Fi 7 into 20 MHz

Wi-Fi CERTIFIED 7™

- Adds support of 20 MHz channel width for IoT applications
- Includes power saving modes to support IoT devices (TWT)
- Increased capacity and data rates compared to Wi-Fi 6
- Fiber-like speeds, deterministic behavior, and interference resilience
- Brings the uncongested spectrum of 6 GHz



20 MHz

Unlocking Wi-Fi 7 for IoT

Wi-Fi 7's real-world impact

- Wi-Fi 7 solutions deployed across hospitals, universities, and multiple NFL team stadiums
- Company partnerships with airports
- Wi-Fi 7 deployed across large university campuses



AI runs on 6 GHz

Organizations on 6 GHz deploy artificial intelligence (AI) workloads at **nearly 2x the rate** of non-6 GHz organizations (45% vs 26%)

PRIMARY 6 GHZ WI-FI USE CASES: AI-FORWARD VS. NON-AI ORGANIZATIONS

■ AI-FORWARD ■ NON-AI

Solving congestion

72%

46%

High-bandwidth applications

70%

32%

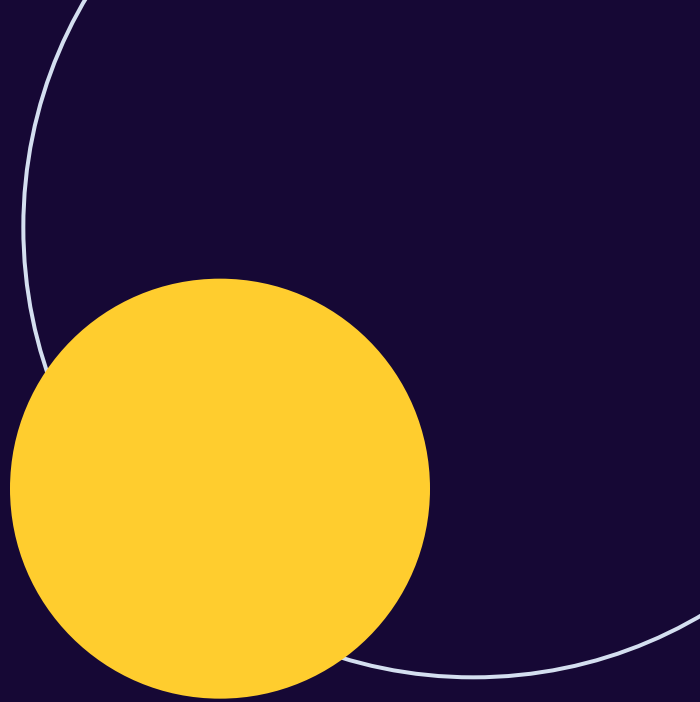
(Cisco, 2026)



Wi-Fi 8 is happening here NOW

- Critical work on Wi-Fi 8 is underway
- Wi-Fi Alliance members advancing early Wi-Fi 8 solutions
- Wi-Fi CERTIFIED is the inflection point for mass adoption





6 GHz Wi-Fi is the future The future is already here



Paramjit Singh Puri

Director Membership, Wi-Fi Alliance®

www.wi-fi.org



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