

# 3 Wi-Fi Myths & How to Fix Them



## The Myths

### Wider Channels are Better!

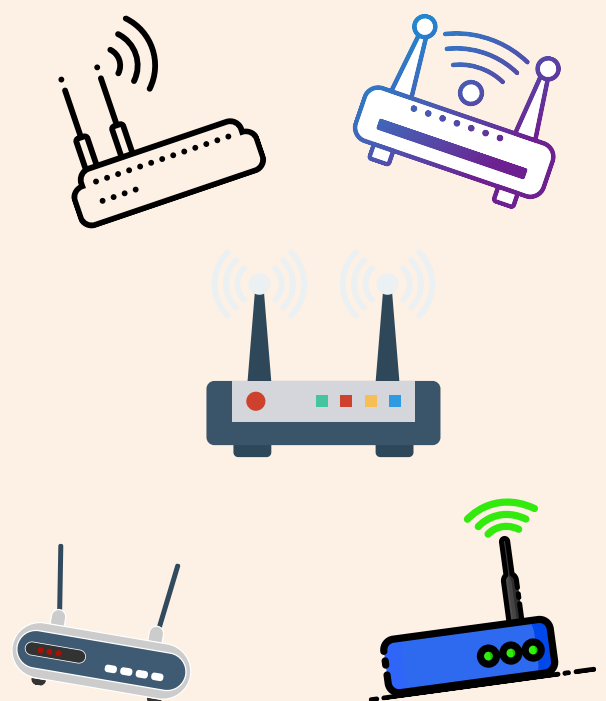
"My channels are set to 80 MHz by default from the manufacturer, that's clearly the way the system is supposed to work."



### Add More AP's

*"Adding additional AP's will fix my 'dead' spots."*

*"If one is good then five must be better."*



### More Power Please!

"Turn it up!"

"Increasing transmit power will make up for poor AP placement."

"If I turn the power all the way up I will need fewer AP's"

## Not quite...

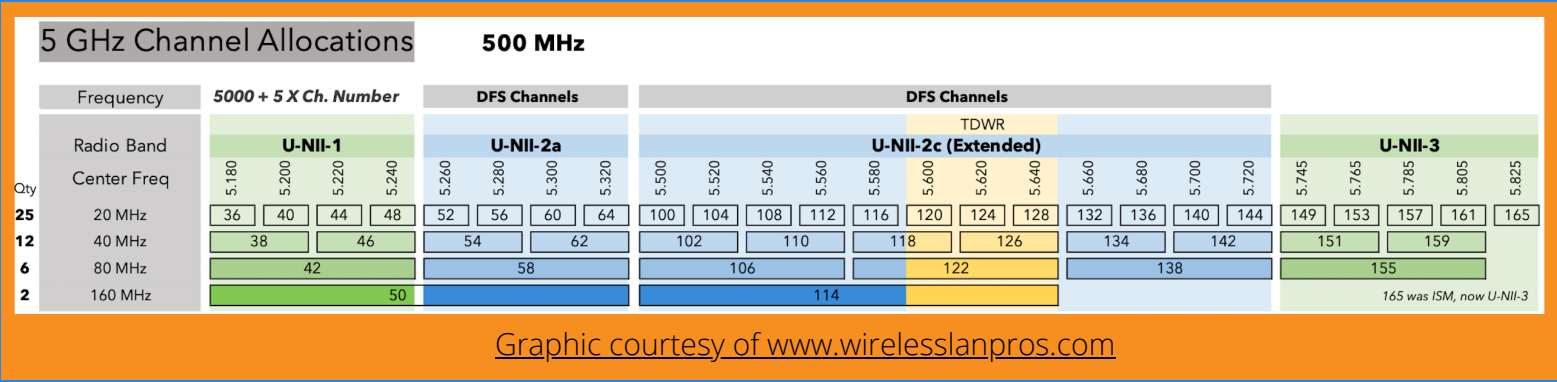
# The Reality

## Wider Channels are NOT usually Better!

- There is a saying in wireless network design, "Use the widest channels you can until you can't." And mostly you can't use 80 MHz and above.
- Having fewer channels available can lead to excessive channel overlap. This is self interference.
- In the vast majority of enterprise cases less is more when It comes to channel width.

## Reduce channel width for a better user experience

This chart shows channel widths **2x160** - **6x80** - **12x40** & **25x20** MHz



## Don't Just Add More AP's



Adding unnecessary hardware can introduce interference and reduce performance even further. Each wireless network is unique and has its own 'sweet spot' number of AP's for optimal performance.

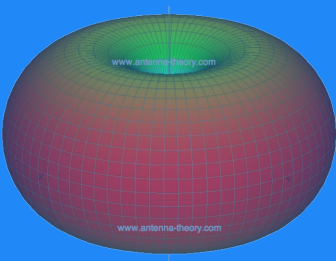
**A site survey will show coverage gaps, channel interference and a lot more.**

*Know exactly what it is you are 'fixing'*

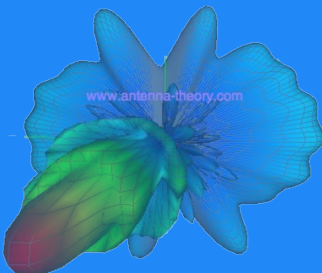
## Its not the power, its the placement

Ok it's a little bit about power. Think of an access point as a light fixture, you wouldn't expect a lightbulb installed inside a closet to illuminate a room would you? An access point should be treated similar to a light fixture. Place it up high in the space with the antennas oriented in the correct direction, and minimize attenuation between client devices and the access point.

**Follow installation instructions. It may sound obvious, but we often see improperly mounted Access Point's.**



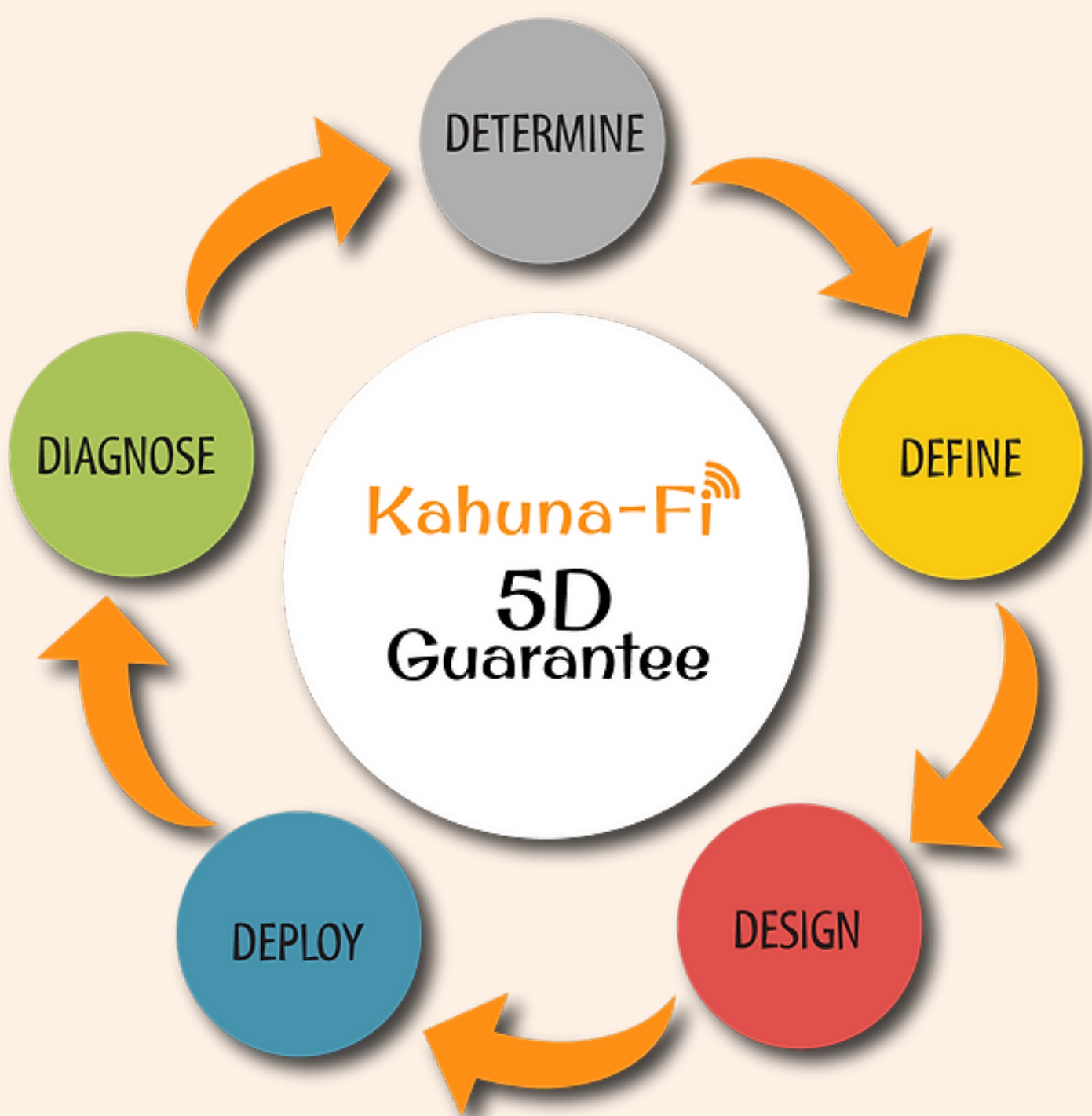
**Antenna Patterns Matter**



# Kahuna-Fi<sup>📶</sup>

These are just some of the misconceptions that bog down Wi-Fi networks. Implementing these tips are a great start to making your network perform at its best. Wi-Fi is meant to enable business and it should not have to be something you spend hours each day managing. We hope debunking a few Wi-Fi myths demonstrates when a networked is engineered any requirement can be designed for and achieved.

## Ask us about the Kahuna-Fi 5D Guarantee



If you have any questions about how to implement these tips or want to learn more how we have helped 100's of others in your shoes contact us at:

**925.831-4740**

-or-

**[aloha@kahuna-fi.com](mailto:aloha@kahuna-fi.com)**