

# Developments in **wifi**

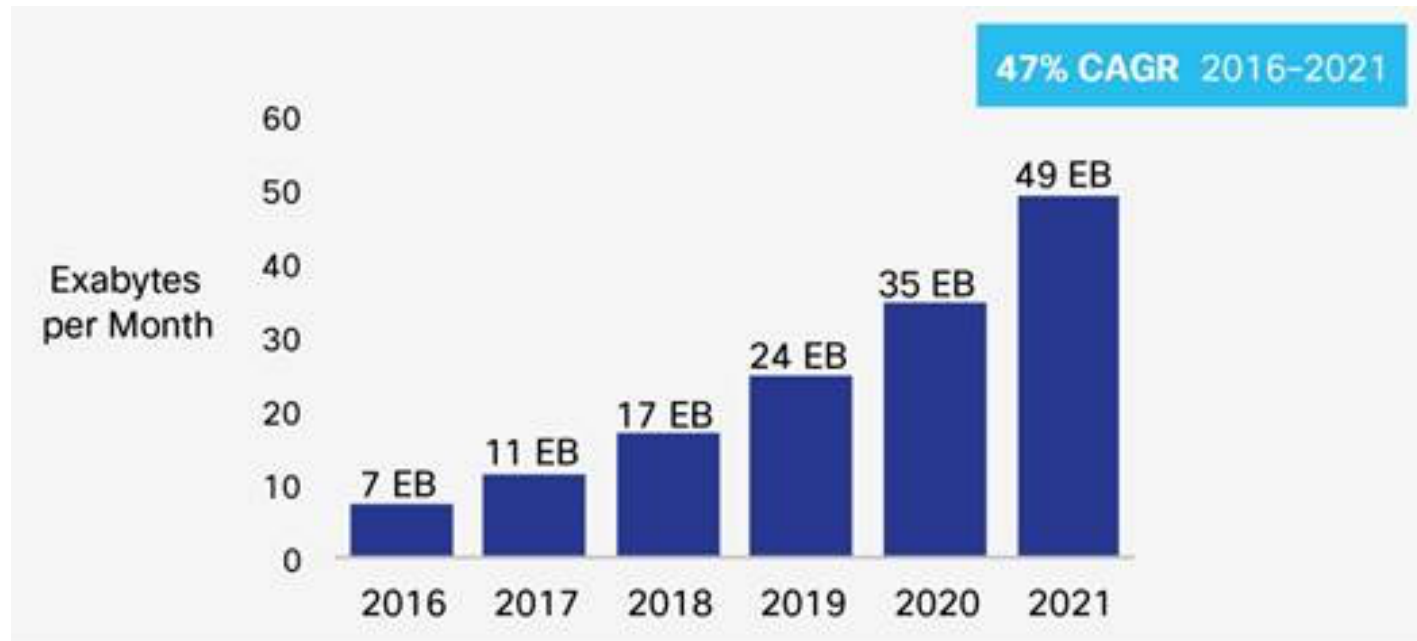
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# Data Usage Now and in the Future

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Cisco predicts mobile data traffic to grow to 49 Exabytes



1 Exabyte = 1,000,000,000 GB = 1,000,000 TB

# Possible Solutions and Innovations

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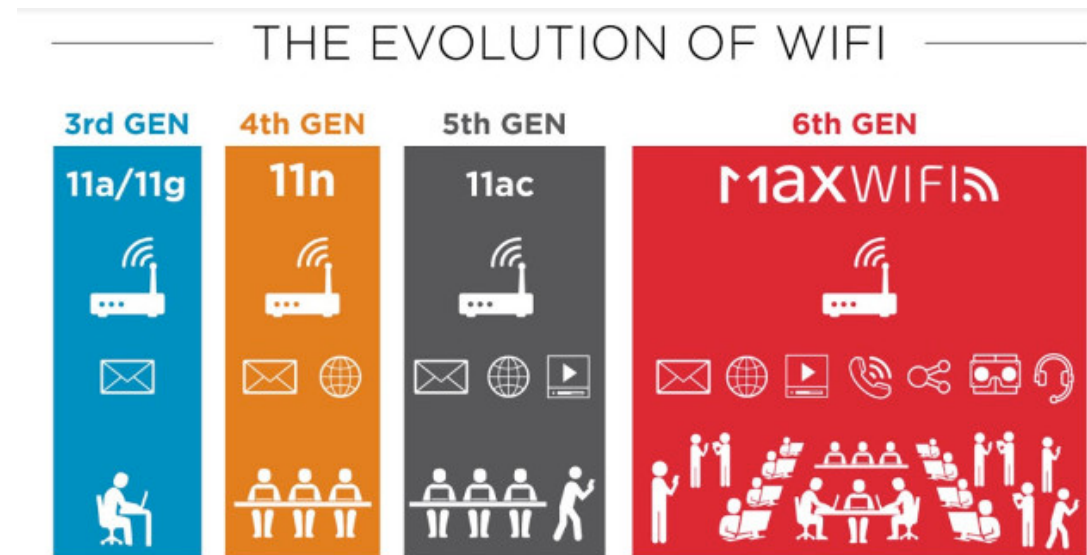
- ❖ Make everything a router
  - ❖ Instead of slowing down the network by connecting more devices, it would help it!
  - ❖ Very expensive to add new devices
- ❖ WiGig – transfers everything 6 times faster than current peaks... but its frequency can't transfer through walls
- ❖ LiFi
  - ❖ Blinking lights so quickly to transfer data
  - ❖ Can transfer a thousand times more information but occurs at the same speed
  - ❖ Line of sight problem



# Improving on What We Have

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- ❖ The current standard is 802.11ac, but many companies are working on 802.11ax
- ❖ Increases speed, but more importantly, it improves greatly on the amount of devices that can connect in the network
- ❖ Also increases battery life!



Thanks for listening!

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