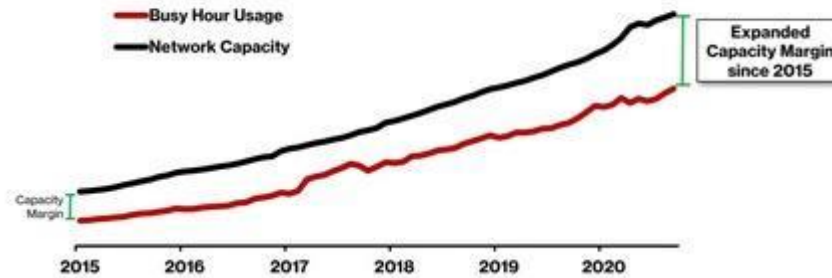


Networks Next Five Years

Plenty of capacity > 100 Mbps

4G capacity margin remains healthy despite usage changes



For: Diversifying Telecoms 24 March 2021

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Networks - Next 5 years (or longer)

Capacity up ~40% year.

Traffic growth down (mostly < 30%.)

Networks ready for
almost everything.

But *not* very low latency.

Verizon Edge 20-30 ms

1 ms fantasy outside labs

Spectrum implications

80-100 midband MHz + Massive MIMO + CA
sufficient for years

More spectrum brings down carrier costs (Modestly)

5G will rapidly > 90% (T-Mobile US 97% 2023)

Low band (700 MHz) doesn't add speed or capacity
(Some engineers call it "fake 5G")