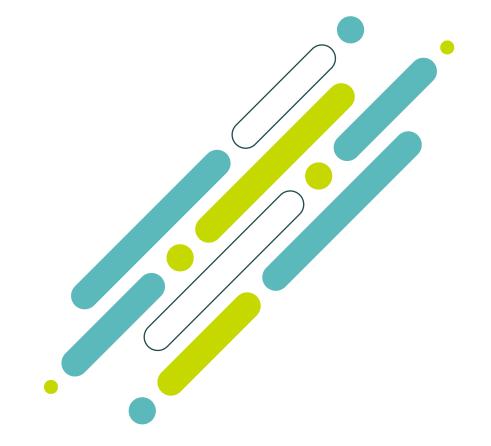
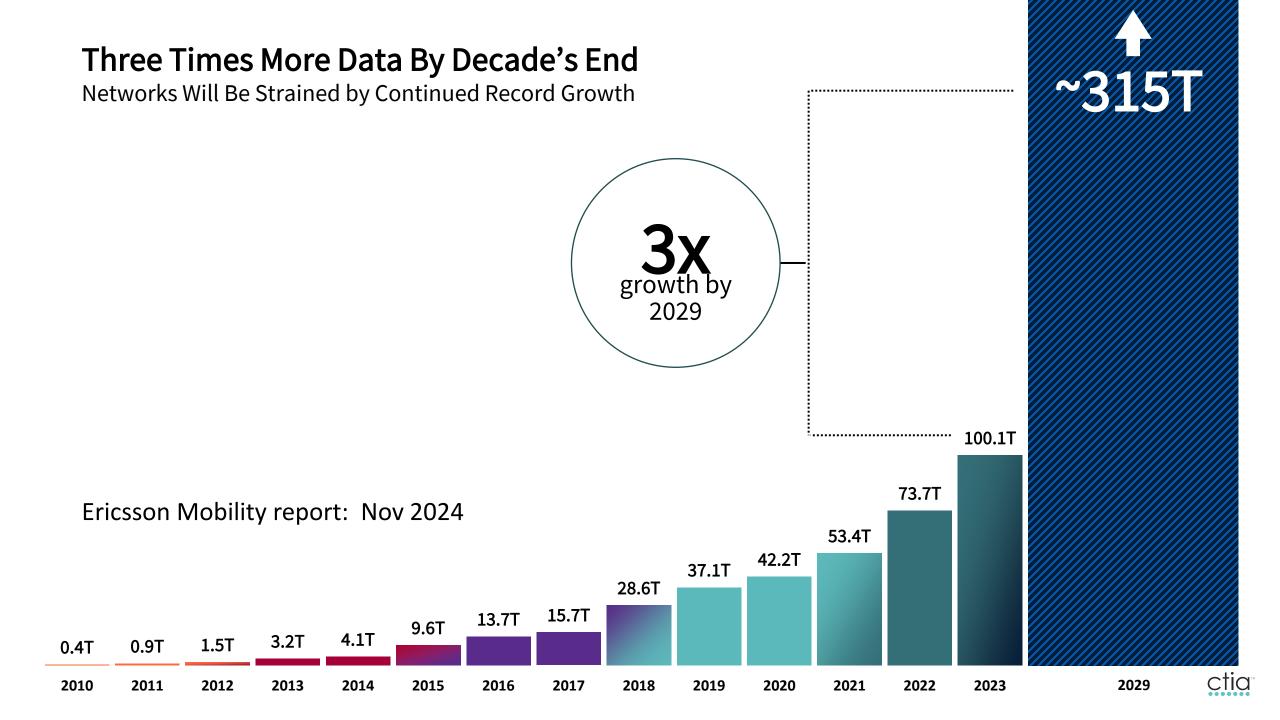


Wireless Usage Growth

Tom Sawanobori, SVP and CTO





AI Will Further Strain Networks

The Rise of AI Puts Greater Pressure on Future Capacity Needs



In the infrastructure layer that is required for AI, success tends to be forgotten." Cellular networks may be the "next AI bottleneck" as "the absence of high-speed, low latency connectivity means that certain use cases are not possible."

- Margherita Della Valle, CEO, Vodafone



3.2x

Amount AI traffic is projected to grow compared to non-AI traffic over the next decade



2028-30

Time period by which experts suggests wireless would be "vulnerable" to popular Gen-AI applications



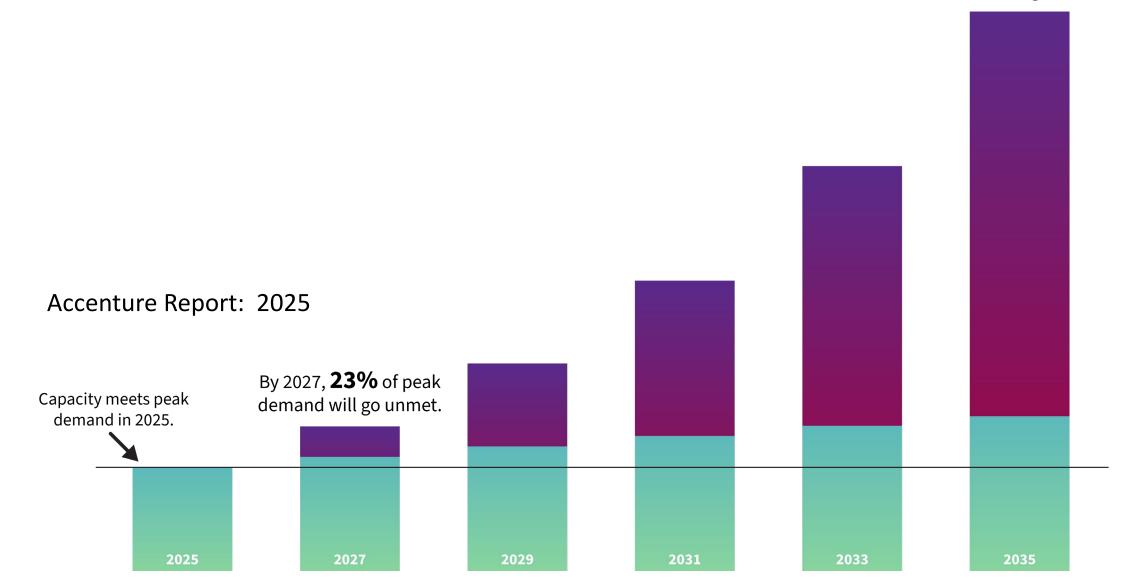
1/3

Future AI wireless uplink traffic will not be met without more spectrum



Average Cell Capacity Can't Keep Up With Demand Without More Spectrum





ctia

Wireless Industry Cannot Meet Demand Without New Spectrum

The U.S. Is Only 2 Years Away From Material Spectrum Deficit in Some Cities

To Meet **3x** Growth in Demand, Wireless Industry Will:



Invest More Money

Wireless invests in the U.S. each and every year—an expected **\$80-120B** over the next 4 years.



Build More Towers

Wireless continually densifies networks to help meet localized demand. Over **40%** more cell sites deployed in the last decade.



Use More Efficient Tech

Wireless is **42x** more efficient with spectrum than it was a decade ago and will keep getting more efficient with 5G.

This will not be sufficient – more spectrum is needed

