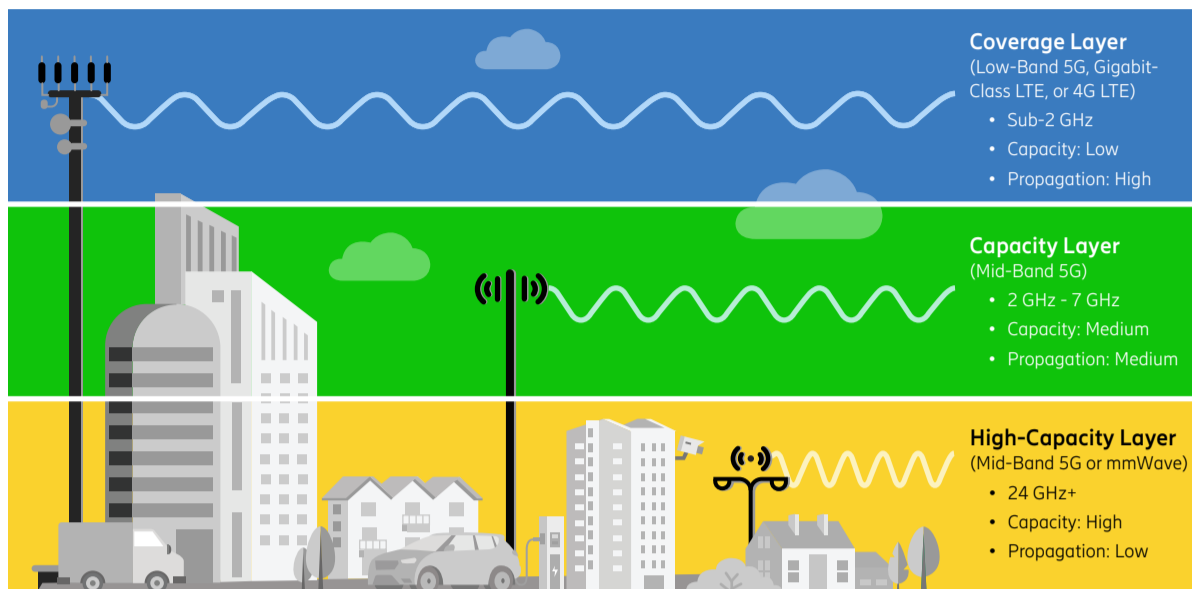


How 5G improves cellular networking



The value of 5G for business isn't just about use cases. It's also not solely about types of spectrum or coverage availability. The value of 5G for business hinges on understanding how use cases vary depending on types of spectrum and network availability — and how that knowledge can expand your organization's presence, usher in new technologies, and improve operations along with customer service.

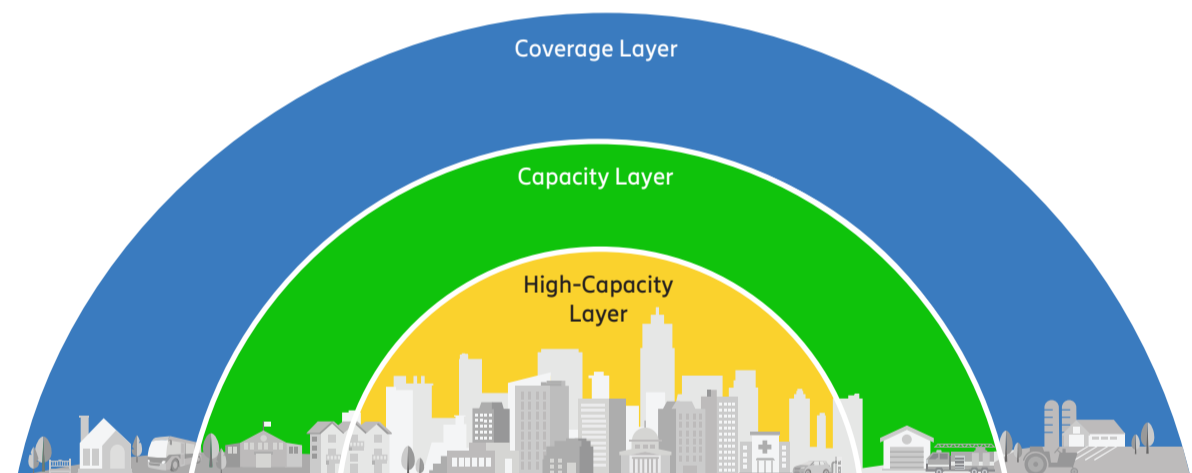
Three 5G layers ready for their closeup



5G's capacity layer and high-capacity layer have more bandwidth and capacity than the coverage layer, which has been in use for decades. However, there are tradeoffs. The capacity layers have lower propagation characteristics; the radio waves don't travel far or penetrate obstacles. Each layer is in a different stage of build-out for each country in the world.

How the spectrum layers work together

Because each spectrum layer has unique characteristics, viable use cases will differ from one layer to the next. Locations, vehicles, and IoT applications of all shapes and sizes will co-exist harmoniously — and the best 5G edge solutions will need to support multiple carriers and types of spectrum.



What's the use? More than you think

Yes, 5G will significantly expand how wireless broadband can be used to connect fixed locations. However, don't forget connected vehicles and IoT. The next generation of cellular technology will bolster the extent to which enterprises use Wireless WAN, as it moves from niche to ubiquity.



Fixed locations

- Failover beyond critical traffic
- Primary wireless for larger sites
- Cellular SD-WAN Fiber replacement
- Industrial 4.0 with private 5G
- AR-enabled marketing



Temporary sites

- High-performance pop-up sites
- Store-in-store connectivity
- Proximity marketing
- AR applications for temporary sites
- Large event broadcasting
- Mobile VR-enabled training



Vehicles

- Multiple in-vehicle applications
- HD video streaming
- Video offload
- High-bandwidth command and control
- Autonomous driving for agriculture
- In-transit healthcare diagnostics



IoT

- Robust smart city applications
- Immersive and interactive kiosks
- HD video surveillance
- Proximity marketing or public safety
- AI-enabled video for public safety and marketing

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