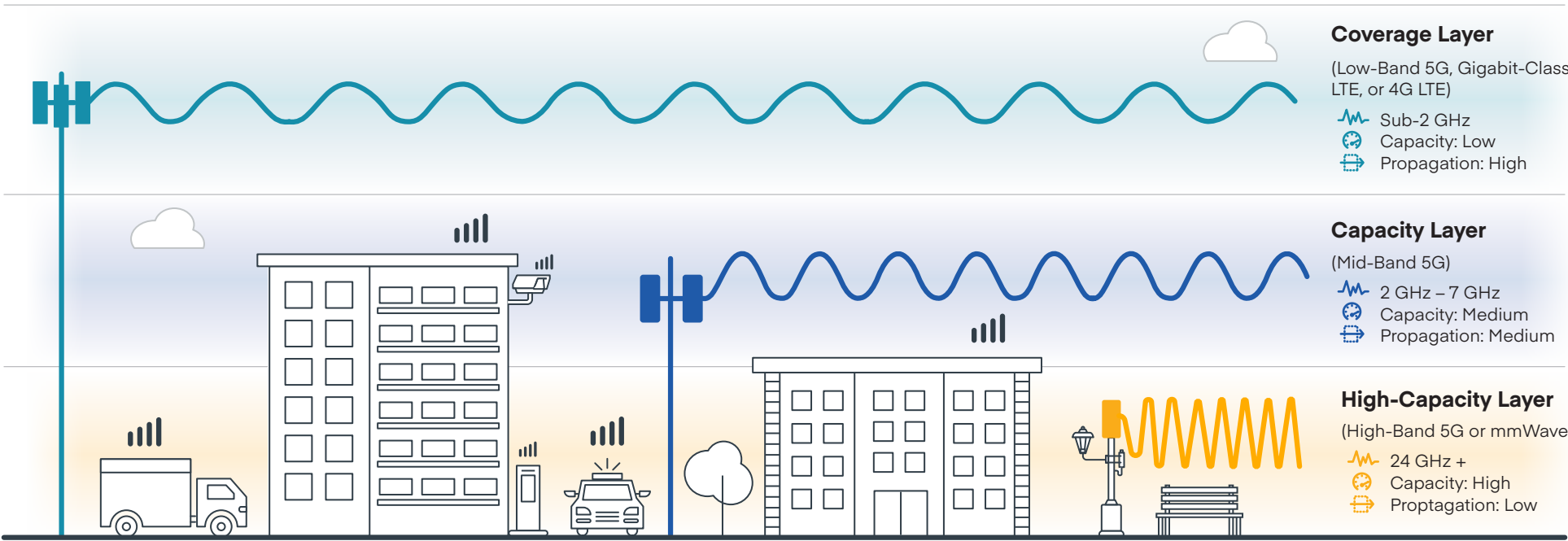


How 5G Improves Cellular Networking

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.

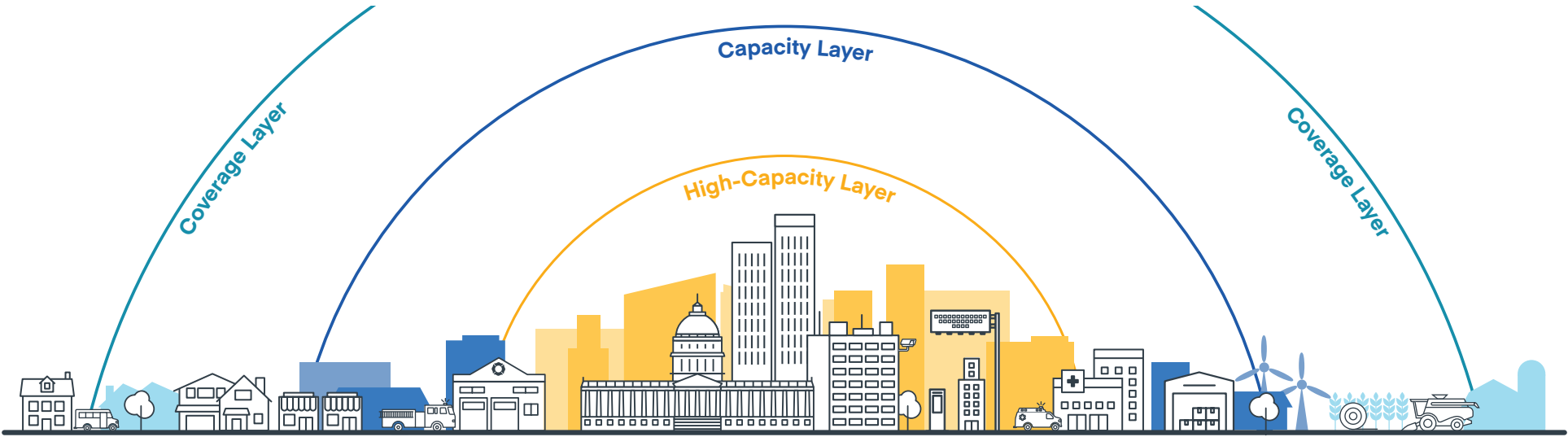
Three 5G layers ready for their closeup



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	Temporary sites	Vehicles	IoT
Failover beyond critical traffic	High-performance pop-up sites	Multiple in-vehicle applications	Robust smart city applications
Primary wireless for larger sites	Store-in-store connectivity	HD video streaming	Immersive and interactive kiosks
Cellular SD-WAN Fiber replacement	Proximity marketing	Video offload	HD video surveillance
Industrial 4.0 with private 5G	AR applications for temporary sites	High-bandwidth command and control	Proximity marketing or public safety
AR-enabled marketing	Large event broadcasting	Autonomous driving for agriculture	AI-enabled video for public safety and marketing
	Mobile VR-enabled training	In-transit healthcare diagnostics	