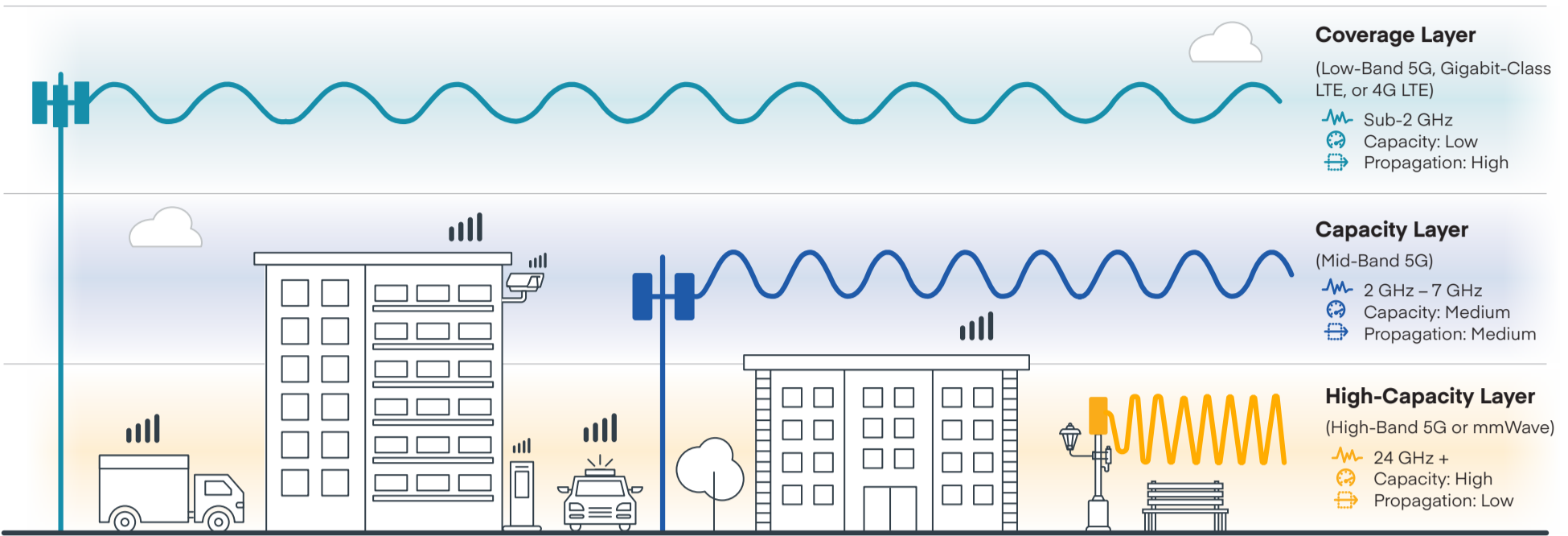


# Find Your 5G: Spectrum and Uses for Business

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.

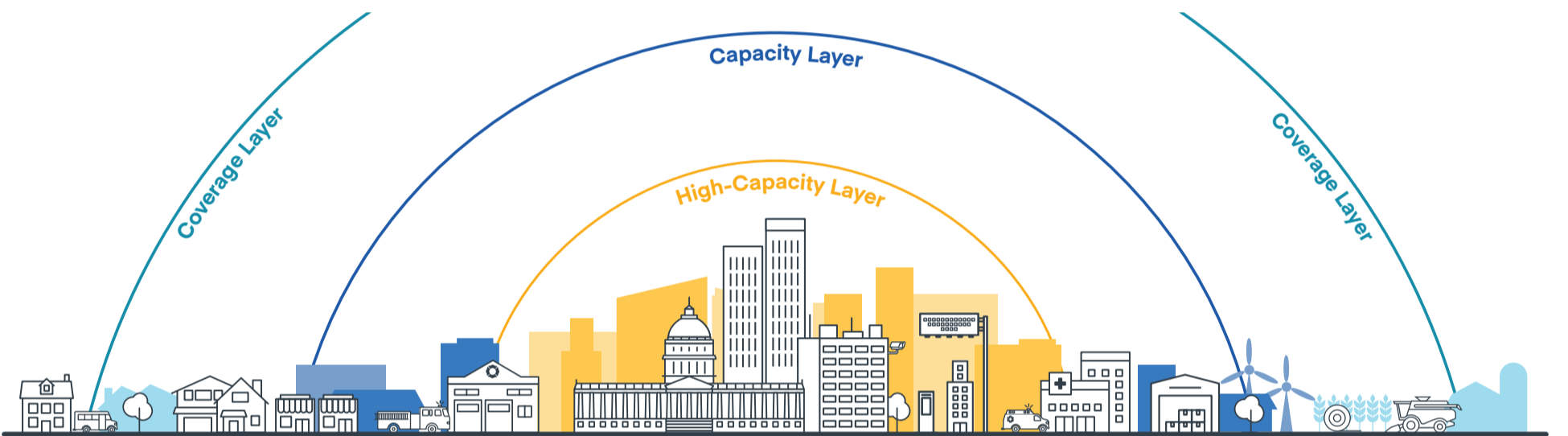
## Three 5G layers ready for their closeup



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.

## Each spectrum layer plays nicely with others

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

## Have it both ways with dual connectivity

How will businesses plan for the future of 5G while operating in the spectrums most readily available today? Thank goodness for dual connectivity. This capability allows both a 4G and 5G connection at the same time — and allows both connections to pass traffic simultaneously. This ensures seamless connectivity as 5G continues to build out.



## Find Your 5G

Your organization may be eager to start experiencing the benefits of 5G, but where do you start? Here are some steps that will help you find the right 5G deployment for your organization's needs.

### 01

#### Collaboratively determine which use cases will provide a competitive edge.

Meet with colleagues from strategic lines of business in order to look at your organization's 5G needs from a visionary perspective. Document these directions in a technology roadmap.

### 02

#### Meet with cellular operators to discuss plans and options.

Forge valuable relationships with carriers today while learning about their plans and sharing your goals. Key topics include:

- Wireless broadband coverage for all your sites and fleets
- Flat-rate plans and national discounts
- How POCs might work in each of your sites

### 03

#### Meet with networking solution vendors or resellers.

Meet with edge networking vendors or resellers who can connect you with the right 5G solution for your organization's use cases. These are good opportunities to:

- Share plans and ask about ways to accomplish your goals
- Diagram solutions
- Plan a POC



Learn more at [cradlepoint.com/5G-guidebook](https://www.cradlepoint.com/5G-guidebook)