

# The Future of 5G

*How and why 5G is going to revolutionize the way businesses (and people) operate*

Modern technology is starting to look more and more like science fiction these days — what with IoT sensors and devices being integrated everywhere, from self-driving trucks and artificial intelligence to virtual reality and who knows what's next.

The crazy thing is, we've only scratched the surface.

State-of-the-art 5G technology will soon allow our planet to generate data on everything we do. You thought the world was hyper interconnected now? Just wait. It won't be long before your shoes, appliances, and even your pets will be connected.

## 5G Statistics: A World Connected

*According to Forbes*, there will be an estimated 30 billion connected devices in the world by 2020. By 2025, this number is predicted to be north of 75 billion connected devices. Some are predicting that the Internet of Things (IoT) is going to explode even more rapidly, with some reports suggesting over 1 trillion connected devices by 2025.

In large part, the deployment of 5G is driving this growth. What's more, many experts believe these numbers are on the conservative side because there are technologies that have yet to be invented that will spur even faster growth.

5G promises 100 times faster speeds than we currently experience today with 4G, while reducing latency to just a few milliseconds. In addition, there will be at least two carriers to create network redundancy, which means limited downtime.

In light of these statistics, an important question remains:

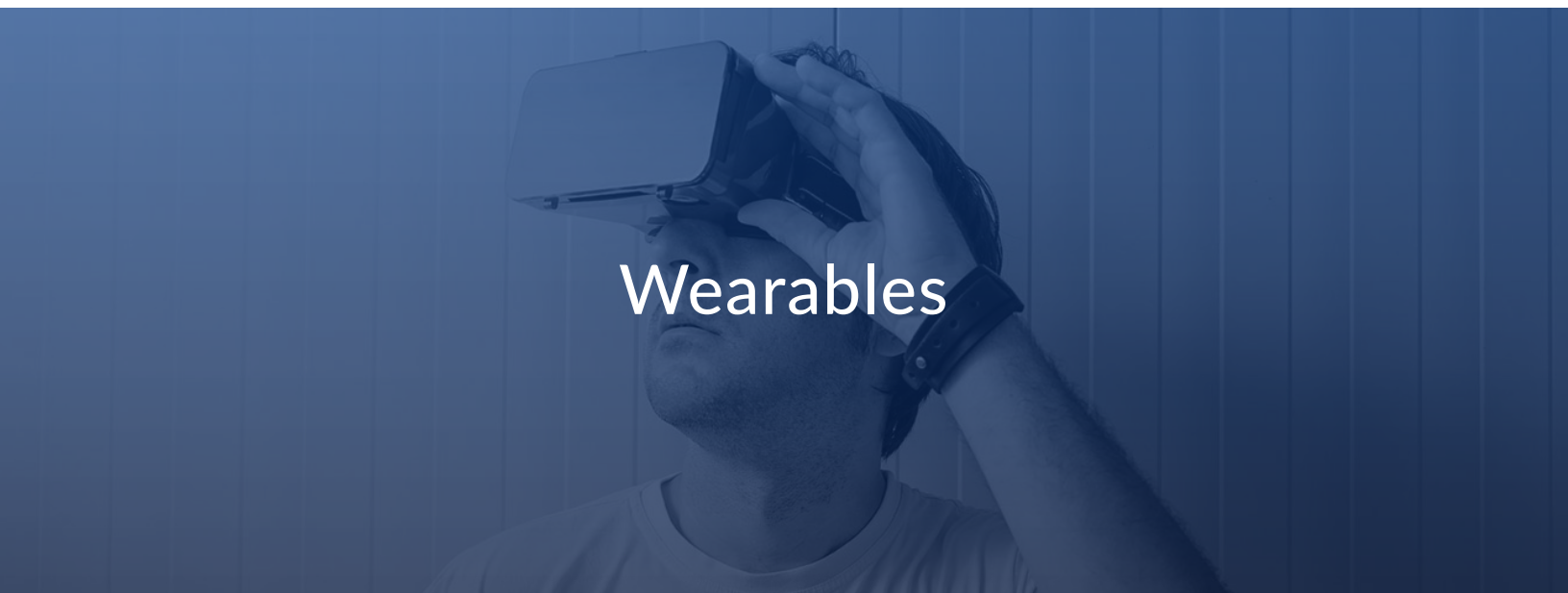
*What does this highly reliable, low latency, and high bandwidth future mean for your business?*

That's the question we'll attempt to answer in this article as we break out the crystal ball.

## 5G and IoT: What to expect

It's hard to imagine the sheer scale and magnitude of growth IoT and connected devices will experience in the next decade. Whatever the final count is, what you can absolutely count on is just about every industry to be impacted in some way. The immense amounts of data that can be analyzed to improve efficiencies and improve our lives is staggering.

While it's impossible to cover all the ways 5G will impact society in a single article, here are a few major trends we predict will affect businesses and our personal lives in transformative ways:



Google, Samsung, Garmin and Apple have all embraced the wearable accessories space. The wearable trend continues to grow with wearable phones, wearable computers, or glasses that can tell you the time, temperature and even play your favorite movie. Virtual reality (VR) and augmented reality (AR) are already on the horizon, and 5G will help improve the usability of these technology – thus improving adoption rates.







# Smart Cities

In the cities of the future, IoT and 5G will help solve major issues like smog, energy shortages, traffic congestion, planning and development, city maintenance and municipal services. Streetlights will have the ability to collect and send information. Waste collection will know when trash bins are full and when to collect them. Parking meters will no longer need to be physically read. Streets will be connected more than ever with the ability to integrate mapping applications to provide the fastest routes based on real-time congestion.



# Agriculture

In a finite world where the global population continues to rise exponentially, the agriculture industry has a tough challenge on its hands. Improving efficiencies will be a key strategy in keeping pace with this growing





The possibilities in healthcare are exciting as we increasingly provide our doctors with data from wearables that monitor our well-being round-the-clock. 5G makes this possible, and it will change the way healthcare is administered through IoT, AI and automation.

## 5G Availability: The Roadmap Forward

All of these benefits of 5G are exciting to be sure, but when can we actually expect them to be available to the public?

Sooner than you might think...

In fact, all the major providers have already made their 5G plans public:

- **Verizon** launched in Chicago and Minneapolis on April 11, 2019, and plans to expand into 30 markets by the end of the year.
- **AT&T** has already launched “5GE” (which is actually just 4G on steroids) in 12 markets, and the company plans to launch actual 5G later in 2019.
- **T-Mobile**’s IAS service plans to integrate 5G in 2019 as well, but thus far they’ve been more vague about when and where.
- **Sprint**, in large part due to merger discussions, is pretty much mirroring the plans of T-Mobile.

As for the other major telecom providers, 5G likely won’t be a nationwide reality until about 2021.

Based on where things currently stand, it looks like Verizon will be the first to market with a true nationwide offering, and they’re suggesting this will come sometime in 2020. But for the sake of being conservative, let’s give them an extra year and say 2021 because these roll-outs tend to take lots of time, money and resources to get them off the ground.

The good news is that the infrastructure is already in place, the technology is tested and working, and the consumer and business demand is most certainly there. So telecom companies have every incentive to get their 5G networks up and operating in the shortest time possible.

## 5Gs Impact on Business

For business owners, *right now* is the time to get ahead of your competition. As discussed in this document, 5G is coming fast and it will change the way your business operates in one way or another. Start thinking about your systems today to consider how 5G will impact those processes.

If your competition embraces this technology before you do, it will put them that much further ahead.

There's no question that 5G is going to change all of our businesses and our lives. It's now just a question of how much.

## About Enable IP

EnableIP is a telecom solutions provider founded by Wired Networks' founder Jeremy Kerth and head engineer Steve Roos after they realized there was a deep market need for helping mid-size businesses establish better uptime rates for their Wide Area Networks (WANs). Armed with the best-in-class carriers and partners, Jeremy and Steve set out with a bold plan: **Guarantee better uptime rates than the industry standard of only 99.5%.**

Their bold plan became a reality. EnableIP's solutions guarantee clients 99.99% (even 99.999%) network uptime. But we don't stop there. Many telecom providers promise high availability network solutions but fail to deliver because they're in the business of providing services, not solutions.

**That's the EnableIP difference:** We deliver highly available networks by providing a complete system (called "Cloud Assurance") that ensures 99.99% or above uptime.

We deliver this bold promise by:

- ✓ **Owning the entire customer experience.** From pricing, contracting, ordering and provisioning to installing, servicing and billing—we do it all! This means no stressful negotiations, confusing setups, or finger pointing if something goes wrong. We actually *deliver* on our promise.
- ✓ **We manage the entire system, and monitor and manage issues as they occur so you can focus on your business—not your network.**

The Enable IP solution is like no other. Contact us to get started and experience the difference of a system that truly delivers on its 99.99% network uptime promise.



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