

# What 5G can do for immersive technologies

With Verizon 5G Ultra Wideband, you can get the performance you need to enable Enterprise Intelligence.

5G offers high speed and low latency, and – when combined with edge computing capabilities – can facilitate groundbreaking improvements in immersive technologies, including artificial reality (AR), virtual reality (VR), mixed reality (MR) and extended reality (XR).

Taking advantage of speeds up to 10 times faster than what you have now,<sup>1</sup> plus video and audio in HD,<sup>2</sup> 5G Ultra Wideband can transform these technologies from interesting entertainment platforms to valuable tools that help make your business even smarter. This is Enterprise Intelligence.

## 5G and immersive technologies have the potential to transform business operations.



### Training

Employee onboarding, safety simulations, medical procedures



### Visualization

Site-map archives, patient care, rapid prototyping, 3D modeling, data visualization



### Collaboration

Immersive meetings, remote repair, product development

Imagine hyper-realistic training environments. Stunning interactive customer experiences. Virtualized to-scale architectural designs. Fully visualized prototyping. All running on fast internet service with multiple devices connected. The possibilities are endless.

## What's the difference between AR, VR, MR and XR?

### AR:

Augmented reality is the overlay of digital elements onto everyday environments.

### MR:

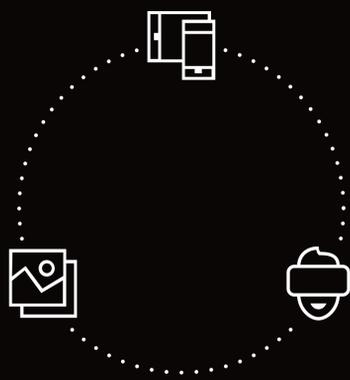
Mixed reality combines real and virtual worlds to produce new environments where physical and digital objects coexist and interact in real time.

### VR:

Virtual reality blocks out the outside environment completely and transports the user to a fully simulated world.

### XR:

Extended reality is the umbrella term used to describe real/virtual combined environments and human-machine interactions. It encompasses AR, VR and MR.



## What is your 5G advantage?

With Verizon 5G Ultra Wideband<sup>3</sup> and immersive technologies, you can:

- Create new revenue streams
- Deliver enhanced customer experiences and solutions
- Provide more engaging education and training experiences
- Empower immersive communication and collaboration
- Rapidly respond to changing business environments

This is Enterprise Intelligence.

## 5G Ultra Wideband offers network capabilities that help enable innovative immersive technologies.

### Throughput

5G is expected to support peak data rates of multiple gigabits per second in the coming years,<sup>4</sup> helping to reduce the potential for buffering delays.



### Latency

5G Ultra Wideband offers low latencies, and can make XR smoother and feel more realistic.



### Connected devices

5G should eventually be capable of supporting up to 1 million devices in a square kilometer,<sup>4</sup> allowing for more devices than ever before possible to connect and giving critical insights on their status, efficiency and usage.



### Mobile edge computing

Mobile edge computing (MEC) brings compute resources closer to the end user to help ensure that you can react and get insights from your digital ecosystem faster than ever before.

## 5G: The foundation for innovation

With massive bandwidth and low latency, 5G Ultra Wideband can support the refresh rates needed to deliver seamless AR/VR experiences.



### Spectrum

Our spectrum holdings – including low-, mid- and high-band spectrum – enable our customers to achieve greater performance with expanded coverage.



### Small-cell deployment

Verizon has relationships in place with large and small municipalities, enabling our small-cell deployment.



### Edge computing

We have a number of network locations ideally suited for MEC, which helps us deliver applications closer to end users and provide access to the tools, power and compute resources to deploy at scale.

Learn more about your 5G opportunity by visiting [verizon.com/about/ourcompany/5g](https://www.verizon.com/about/ourcompany/5g) or by contacting your Verizon Business Account Manager.



1 Comparison is to median Verizon 4G LTE speeds.  
2 HD availability may depend on the specific Verizon data plan in which a customer is enrolled.  
3 5G Ultra Wideband available in select areas.  
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