What makes 5G unique?

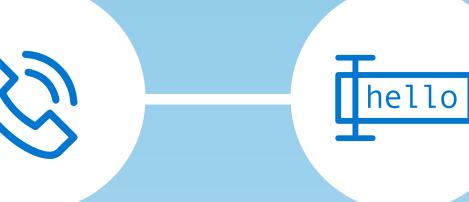
Whereas previous-generation networks connected people with people, 5G will connect businesses with everything and then empower those businesses to orchestrate their operations accordingly to achieve superlatively more than they could before.

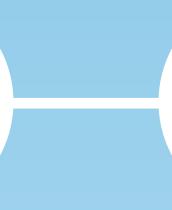


The evolution from 1G to 5G While 4G, 3G, etc., were essentially updates, 5G represents a

fundamentally different infrastructure.













First-gen wireless from the 1980s, enabled voice communication¹

2G First deployed

commercially in 1991, added text

Commercially launched in 2001, enabled basic mobile computing³

3G

4G

First publicly available in 2009, allowed app-based mobile computing¹

5G

Built for the cloud, it

will enable emerging technologies to operate more seamlessly¹

The benefits of 5G

It moves

capabilities²

data faster.

4G's average latency is ~50ms



5G's expected latency is just 10ms⁵

Latency is the time it takes data to move from source to destination in milliseconds (ms)—meaning a reduction is a good thing.4

With 5G machines can reliably communicate with each other and problem-solve autonomously.6

It's ultra-reliable.

It can connect one

million devices across every half square mile, with speeds of up to a gigabit per second.7

and sensors—for ultra-reliable, low-latency communications for real-time behaviors. And it was designed to give you abundant mobile bandwidth everywhere." — JOHN ROESE, president and CTO of products and operations,

"5G is a fabric that was

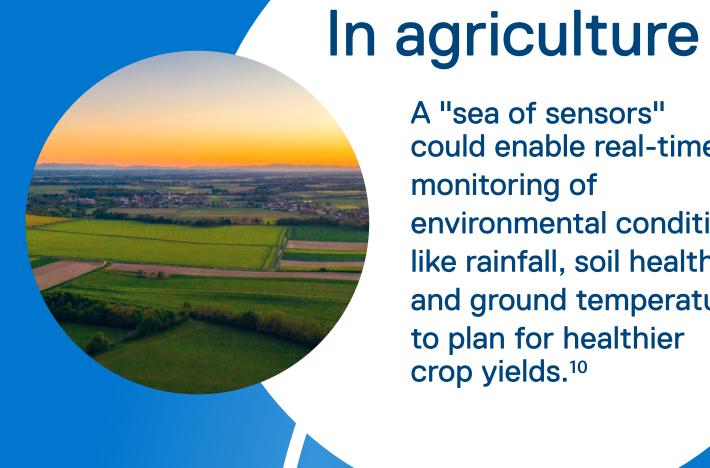
designed for highly dense devices

Dell Technologies⁹

& 5G in everyday life "The wonder cycle" is the idea that anything that wants to be connected can be connected. 5G will bring the benefits of

The wonder cycle

hyperconnectivity to every corner of society and industry.



monitoring of environmental conditions like rainfall, soil health, and ground temperatures

A "sea of sensors"

could enable real-time

to plan for healthier crop yields.¹⁰

5G could streamline services for first responders and coordinate

In emergency

critical logistics from remote locations, at the site of a fire, for instance.¹¹



In manufacturing

With 5G enabling real-time data

transfer, remote training or remote

engineering can be done collaboratively using virtual reality headsets.¹²



In telemedicine

could diagnose a stroke in progress before the patient reaches the hospital, allowing treatment to

In an ambulance equipped with 5G,

high-definition imagery powered by Al

be applied during transport.9



VISH NANDLALL, VP of technology strategy and ecosystems, Dell Technologies¹³

"When you lower the cost of a technology, you increase

access. And when you increase access, more and more

people are able to start to participate in the dividends

that broadband can bring, not just in a city but in

rural locations."

2. The right connective

fabric to realize a

mixed-reality future.

Hyperconnectivity can deliver on its promises if IT departments are ready.



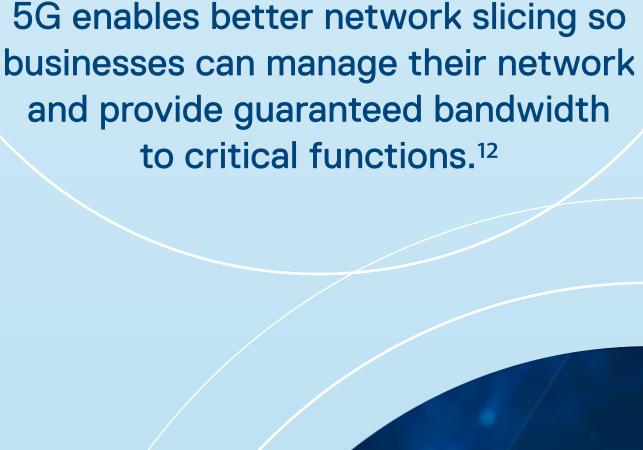
1. Greater bandwidth

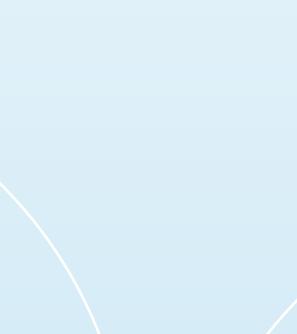
to handle many more

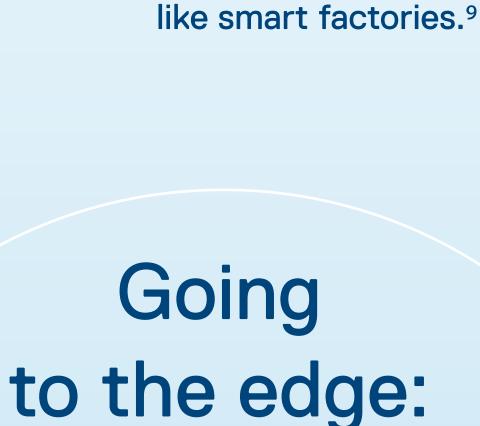
connected devices.

5G will deliver:









3. Global-scale edges with

computing and storage in close

proximity to real-time domains

is possible with edge computing, which is enabled by 5G and the low latency data transfer it affords in real-time domains.9 10% 75%

The next evolution of digital experiences

5 years.¹⁴

5G will take edge computing mainstream.

Enterprise-generated data will

increase by 65% in the next

digital experience, which, as we go

experiences come together."

— JOHN ROESE⁹

"We see 5G as a

connective fabric for the entire

into the new normal, is a mixed

reality experience, where digital

experiences and physical

The timeline for 5G When will this promising future arrive?

By the end of

2021, nearly **1.2**

billion people

could have access

to 5G.¹⁶

2021

Dell Technologies CTO John Roese expects 5G will be deployed on a global

It could reach 53% of the global population scale within two to by 2025.¹⁶

2025

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three years.9

2024

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