

Use the 5G Force, Luke



Tapping into the potential of 5G networks to create brand new, highly collaborative business propositions

5G is so fast and agile, not even a Jedi light saber can beat it. But the huge improvements in bandwidth and latency are not the only drivers that spark the revolution. With so many more people, devices, things and entire organizations soon connected in real time, there are many brand-new, collaborative business opportunities. Whether it's on the road, in the air, at sea, in cities, factories, in warehouses or at home; the phenomenal ecosystem power of 5G enables man and machine – or machine and machine - to work together in previously unthinkable ways. So, don't just get blinded by the blistering speed: look at the much broader potential of a hyper-connected world. As Luke quite rightly explained, "the force is the energy between all things, that binds the universe together." May that force be with you.



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WHAT

- According to GSMA, the investments in 5G networks will reach \$1 trillion worldwide by 2025.
- 5G is not only getting 1GByte/s at your fingertips, but the latency is also significantly lower, not to mention the vast number of handsets that can use the network at the same time. So, there's more data, faster and constantly available.
- An enabler for IoT – 5G connects various sensors, actuators, equipment and machines to quickly transmit data right to where it is needed.
- 5G has the capability to enhance internet access to remote and underserved geographical areas, having a massively positive impact on society.
- Emerging technologies – such as edge, AI/ML, AR/VR, real-time image/video streaming – have limitless potential and applications when 5G is leveraged.

USE

- 5G trials are being conducted globally by many industry innovators and early adopters across industry verticals along with telecom service and solution providers.
- Covid-19 has led to an increased need for 5G technology, accelerating 5G deployments globally with many governments pushing for 5G and encouraging industry adoption.
- 5G chipsets and device ecosystems are becoming increasingly available. A variety of 5G devices with indoor/outdoor CPEs, FWTs, hotspots, dongles, adapters, modules, IoT routers and other devices (robots, AGVs, cameras, head-mounted displays, gadgets etc.) are becoming available in addition to smartphones.

IMPACT

- Benefiting consumer and industrial markets alike, by increasing reliability, security, network slicing, device density and power efficiency.
- An IHS Markit study estimates that by 2035, [\\$13.2 trillion](#) in global economic value will be attributed to 5G, generating 22.3 million jobs in the 5G global value chain alone.
- The impact on the environment through energy consumption cannot be denied, however. Downloading gigabits of data through game or video streaming is increasing our Carbon Footprint drastically and connecting billions of objects to fulfill data lakes centers requires a new way of architecting our digital world.

TECH

Specifications & Papers: [5G in industrial operations](#), [Harmonizing Standards For Edge Computing](#), [Arming 5G Private Networks with Altran](#), [Industrial grade 5G](#), [5G Network Automation](#), 3GPP Release [5G specifications](#), WHO [5G mobile networks and health](#), [5G Network Operations: AI/ML Based Recursive Autonomic OSS](#), [Back to the 5G Future](#)

