

5G – Next Generation Mobile Network

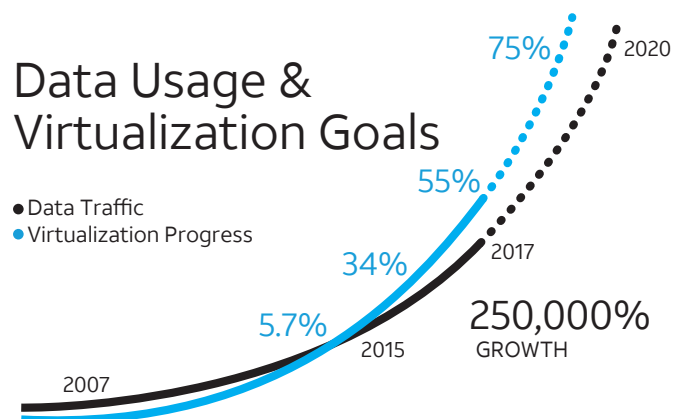
- 5G simply stands for fifth generation and refers to the next and newest mobile wireless standard.
- At AT&T, we're leading the evolution to 5G. We're always evolving our network and looking forward to what's next. The work we're doing on our network today is laying the foundation for 5G.
- Until 5G, speed was the primary driver and defining criterion among the Gs (2G, 3G, 4G). While speed will be important for 5G, the true 5G promise is much more.
 - The vision of 5G is to enable the wireless network to essentially do what a fixed network can do (such as low latency and high throughput).
- 5G will transform the way you work, play and enjoy entertainment.
 - 5G promises to take people places they've never been by unlocking new experiences such as augmented realities, virtual presence, driverless cars, telemedicine and connected homes.
 - 5G will accelerate the delivery of entertainment at home and on the go and many more consumer and business experiences.
 - We view potential 5G use cases in three primary categories: enhanced mobile broadband, massive connectivity (IoT) and low latency applications.
- Customers will see much lower latency on 5G networks. Lower latency means customers will be able to click a button and see instant action in an online game.
- 5G is ideal for bandwidth-hungry applications because it will support multiple radio interfaces, enable more spectrum efficiency, and take advantage of our advanced network capabilities.

“Data on our mobile network has increased about 250,000% since 2007.”

John Donovan,
Chief Strategy Officer and Group
President, Technology and Operations

“5G's promise of greater speed and overall network performance brings huge opportunities.”

John Donovan,
Chief Strategy Officer and Group
President, Technology and Operations



- With a SDN, Big Data and Open Source network approach, and planned fiber build-out to millions of locations throughout the United States, AT&T is in a unique position to support next-generation 5G applications quickly and efficiently.
 - Our global leadership in moving to SDN is a key attribute in our 5G evolution, because it delivers a sizeable cost advantage in the deployment of 5G technology over a traditional, hardware-centric network approach.
- We currently have 5G lab work operating in four major cities – Austin, Texas, Middletown, N.J., Atlanta, Ga. and San Ramon, Calif.
- AT&T expects to be the first U.S. company to introduce mobile 5G service in a dozen markets by late 2018.



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