

AT&T and 5G

AT&T is working hard toward a 5G mobile future today. In fact, we're laying the 5G network foundation with 5G Evolution and LTE-LAA. These technologies serve as the runway to 5G by boosting the existing LTE network and priming it for the future of connectivity, which enables faster speeds now and allows us to upgrade to 5G when it's ready.¹

Capabilities

5G will help change the way we live and work. We expect 5G technology to help us connect more devices faster, enable lower latency, increase battery life, and handle more data — like surging video growth on mobile networks.

- 5G promises to take people places they've never been by unlocking brand new experiences like augmented reality and virtual presence.
- It will enable the technology behind the massive Internet of Things movement — powering the future of driverless cars, telemedicine, connected power grids, smart homes, and smart cities.

Evolution

We're laying the foundation for the evolution to a 5G world by pushing the development of our mobile networks forward with industry-leading tests and trials, reaching new ultra-fast internet milestones.

Lab Work & Trials

- We currently have 5G lab work operating in four major cities as we march toward full commercial deployment: Austin, TX; Middletown, NJ; Atlanta, GA; and San Ramon, CA.
- We've reached speeds up to 14 Gbps in lab trials and successfully tested a connection with 3-5 milliseconds of RAN latency.
- Our initial 5G lab trials also simulate real-world environment scenarios and strenuous conditions.

What's Next

- In April 2018, AT&T continued to build on our 5G foundation by launching our 5G Evolution technology in parts of 117² new markets, bringing the total number of markets served with that technology to 141. 5G Evolution markets are locations where we've deployed the latest technologies that enable peak theoretical wireless speeds of at least 400 megabits per second³ on capable devices.
- We plan to broadly make 5G Evolution technology and the capabilities it enables available in over 400 markets later this year, including in parts of Baltimore; Charlotte, NC; Cleveland; Denver; Detroit; Jacksonville, FL; Kansas City, MO; Las Vegas; New York City; Philadelphia; Portland; Raleigh; Salt Lake City; Seattle; and Washington, D.C.
- We've also made LTE-LAA available in parts of 15 markets. With LTE-LAA, the network has peak theoretical wireless speeds reaching up to 1 Gbps on capable devices.

We're always evolving our network and looking forward to what's next. Our 5G network evolution plans will pave the way to the next generation of higher speeds for our customers.

1. See http://about.att.com/innovationblog/5g_evolution_record; 2. Cellular Market Areas as defined by the FCC (<https://www.fcc.gov/oet/maps/areas>); 3. Actual speeds may be lower and will vary. See <http://about.att.com/sites/broadband/performance> for more information on wireless speeds.