If we look back, we will find that every next decade, one generation is advancing in the field of mobile technology. Starting from the First Generation 1G in 1980s, Second Generation 2G in 1990s, Third Generation 3G in 2000s, **Fourth Generation** 4G in 2010s, and now Fifth Generation 5G, we are advancing towards more and more sophisticated and smarter technology.



What is 5G Technology?

The 5G technology is expected to provide a new *muchwiderthanthepreviousone* frequency bands along with the wider spectral bandwidth per frequency channel. As of now, the predecessors *generations* mobile technologies have evidenced substantial increase in peak bitrate. Then — how is 5G different from the previous one *especially4G*? The answer is — it is not only the increase in bitrate made 5G distinct from the 4G, but rather 5G is also advanced in terms of —

- High increased peak bit rate
- Larger data volume per unit area i. e. highsystemspectralefficiency
- High capacity to allow more devices connectivity concurrently and instantaneously
- Lower battery consumption
- Better connectivity irrespective of the geographic region, in which you are
- Larger number of supporting devices
- Lower cost of infrastructural development
- Higher reliability of the communications

As researchers say, with the wide range of bandwidth radio channels, it is able to support the speed up to 10 Gbps, the 5G *WiFi* technology will offer contiguous and consistent coverage — "wider area mobility in true sonse"

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