

What is 5G?

5G stands for Fifth Generation and it is the latest evolution of mobile communications which has taken over the 4G LTE

5G Objectives



10x 4G bandwidth

Very low latency

Ultra Reliable

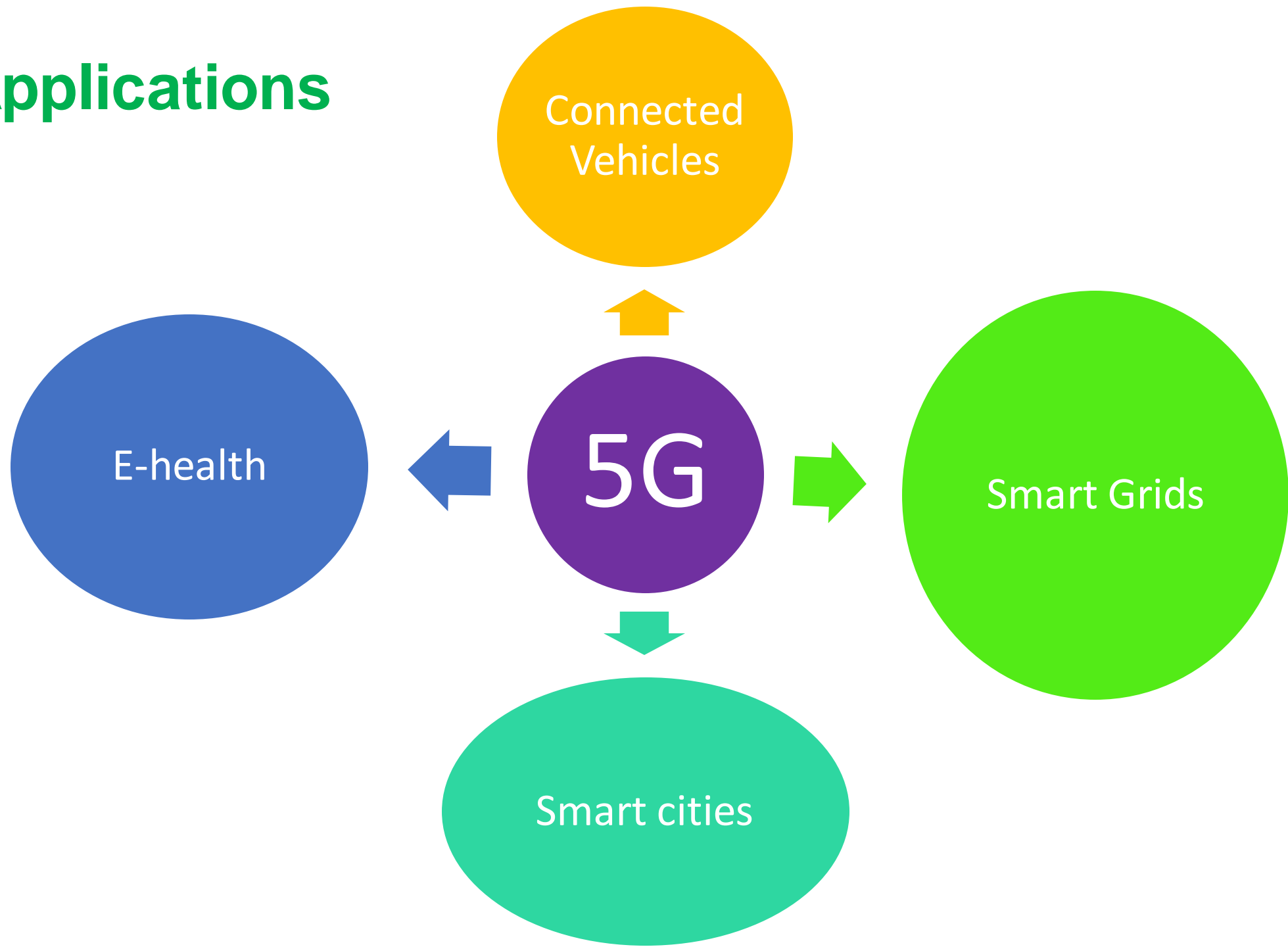
100% coverage

50 Mbps per connection no matter the area

1000x more bandwidth per surface area

10 years battery life for connected objects

5G Applications



5G ITU requirements

Communication between objects of varying QoS

mMTC

eMBB

Initial 5G



Throughput

Low Latency

ITU Future IMT

URLLC

Ultra High debit connection, HD quality, 8K Streaming

Very low latency and high reliability. Example, in transport

IoT, smart homes, smart cities

5G Architecture

5G has two specifications in terms of architecture:

- 1 5G Non-Stand Alone Architecture (5G NSA)
- 2 5G Stand-Alone Architecture (5G SA)

5G NSA

It still uses the 4G's core network, but now uses a new Access Network

