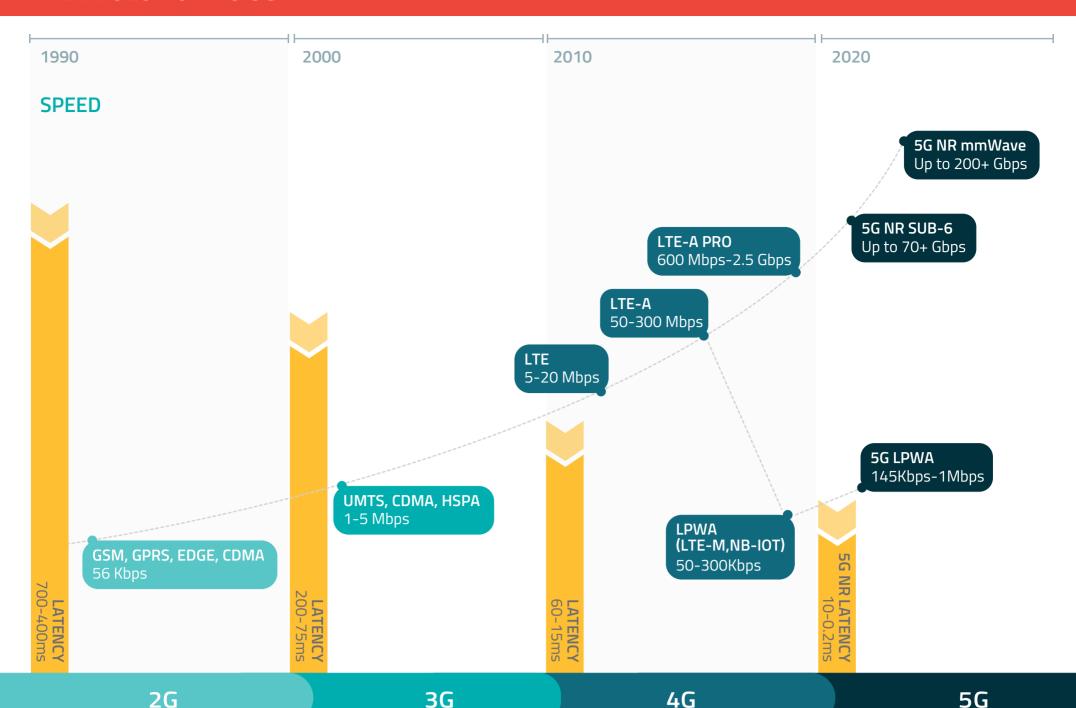
# **56** Brings evolutionary and disruptive changes in the loT

### THE EVOLUTION TO 5G



### Did you know...



4G Coexistence with 5G will extend the LTE lifecycle even further



### 5G NR & 5G LPWA

continues the 4G track to support high and lowbandwidth use cases

### 5G is coming in waves and bringing in new use cases...



#### **FIXED WIRELESS** ACCESS

- Fixed location
- Cost effective
- Primarily outdoor usage
- High speed
- Localized coverage



#### **SMARTPHONES** Mobile

Broad coverage

**CONSUMER** 

- Indoor and
- outdoor coverage

#### BROADBAND (eMBB) High average speed

**ENHANCED MOBILE** 

- High capacity
- Broader range of devices

#### Low power Low cost High coverage

MASSIVE IoT (mMTC)

High density

5G LPWA /

- Satellite (NTN)

**FUTURE 5G** 

Non-public

Low latency, high

network (NPN)

reliability (URLLC)

Enhanced V2X





### 5G is creating new business opportunities



### Enabling real-time

applications like AR/VR



More devices can be online at once



### Data will move faster,

easily exceed 5 Gbps



#### **AGRICULTURE** Optimize processes, monitor crops,

generate real-time data, increase automation



More control over public and private transportation systems, connected autonomous vehicles

**TRANSPORTATION** 



Real-time data reports following accidents and natural disasters, plus enhanced use of telematics

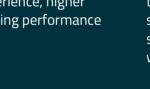


**MANUFACTURING** Build smart factories with AI, AR, and robotics



Faster HD streaming, improved user experience, higher gaming performance

**ENTERTAINMENT** 









Efficient data

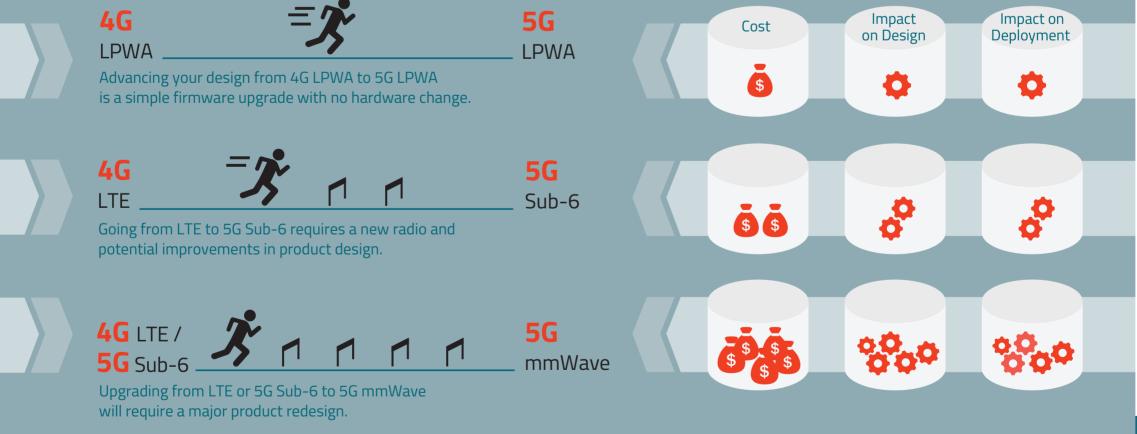
management, transmit high-res scans, remote robotic surgery, advanced wellness wearable



costs

#### **MANAGEMENT** Expand use of IoT sensors to increase production, streamline

# Plan your path to 5G carefully



# Things to consider when designing or deploying





## Security and 5G

As the number of connected devices increases, so will the number of IoT security threats, and working with a trusted partner will become more important than ever. With 20+ years of IoT security experience, Sierra Wireless helps organizations realize a more secure future.