# **5G**Usage Scenarios

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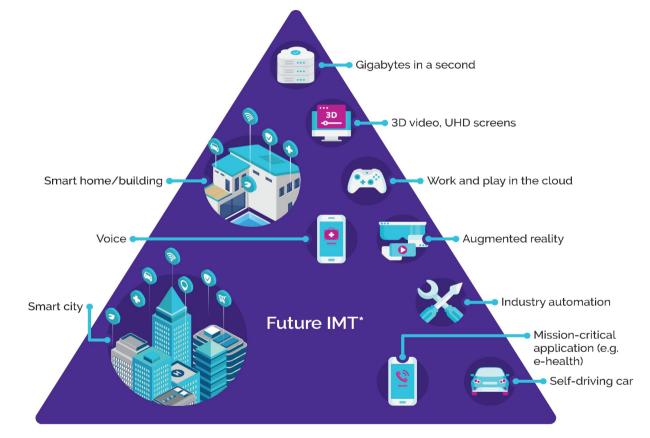
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#### Enhanced Mobile Broadband (eMBB)



Massive Machine
Type Communications
(mMTC)

Ultra-reliable and Low Latency Communications (URLLC)

## 5G Security

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#### Resilience

5G resilience to cyberattacks and non-malicious incidents comes through a variety of complementary and partially overlapping features.

### **Security Assurance**

3GPP and GSMA define the network equipment security assurance scheme (NESAS), which is suitable to the telecom equipment lifecycle.

#### **Privacy**

Encryption protects data traffic, including phone calls, internet traffic and text messages. 5G also integrates protection for subscriber identifiers and detection of false base stations.



Source: Ericsson, 2018

## **Communication Security**

The new Service Based Architecture (SBA) for core network communication takes threats from the interconnect network into account from the start.

#### Identity Management

5G includes secure identity management for identifying and authenticating subscribers, roaming or not, ensuring that only the genuine subscribers can access network services.

**5G**Enabled Industry
Digitalization
Revenues for ICT
Players, 2026

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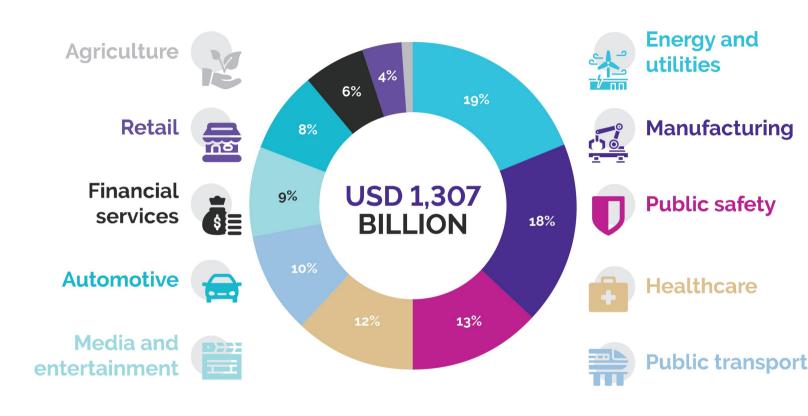


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Source: Ericsson and Arthur D. Little, 2017

## Benefits of 5G-Enabled Technology

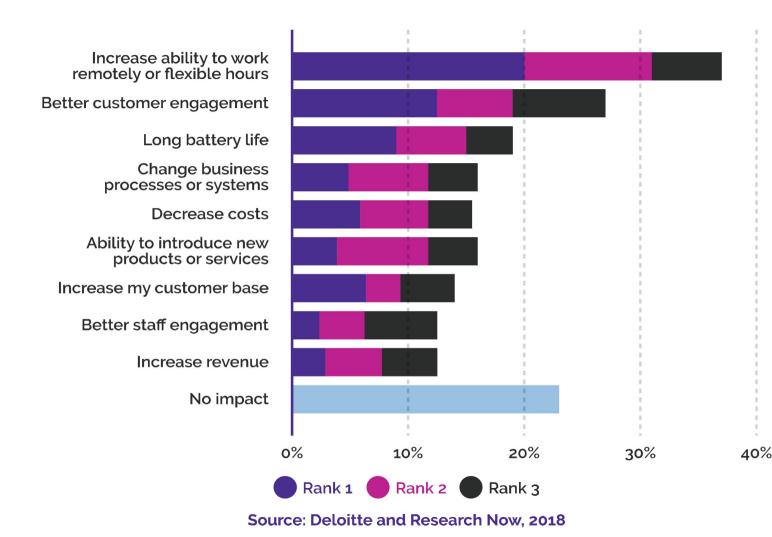
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## 5G Timeline

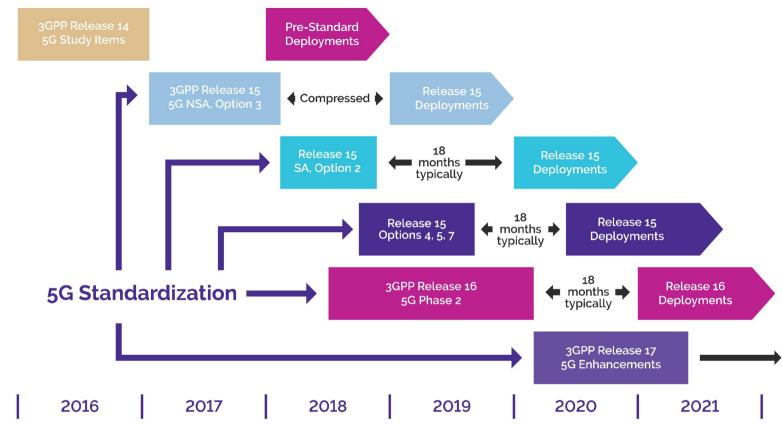
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NSA - Non Standalone

SA - Standalone

Option 2 (SA) - NR (New Radio) only radio access with 5G core network

Option 3 (NSA) - LTE (Long-Term Evolution) and NR radio access with LTE core network

Option 4 (NSA) and 7 (NSA) - LTE and NR radio access with 5G core network

Option 5 (SA) - LTE only radio access with 5G core network

3rd Generation Partnership Project (3GPP) is a standards organization which develops protocols for mobile telephony.

Source: Rysavy Research