


5G Usage Scenarios

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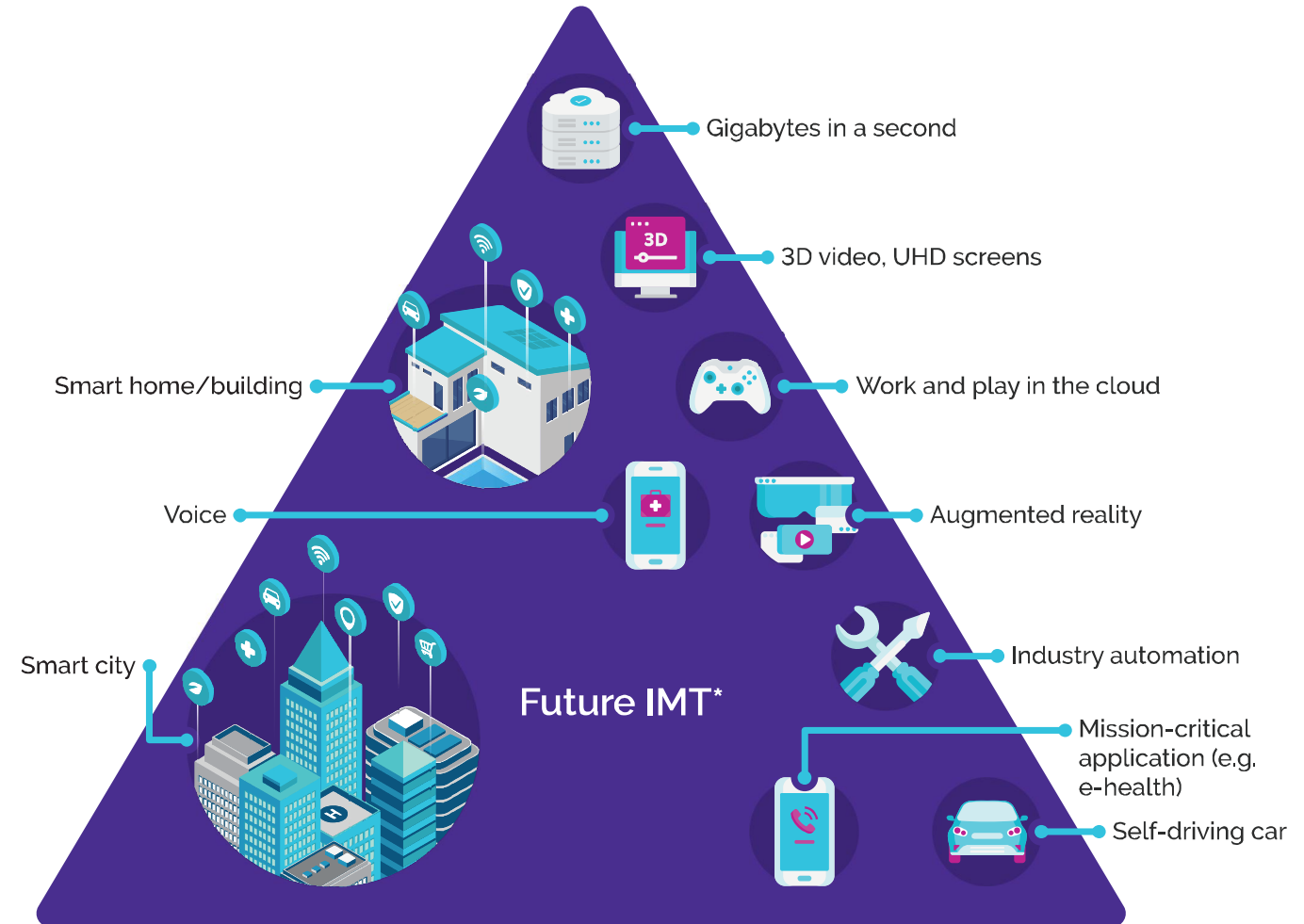
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Enhanced Mobile Broadband (eMBB)



Massive Machine
Type Communications
(mMTC)

Ultra-reliable and Low
Latency Communications
(URLLC)


5G Security

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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.

Resilience

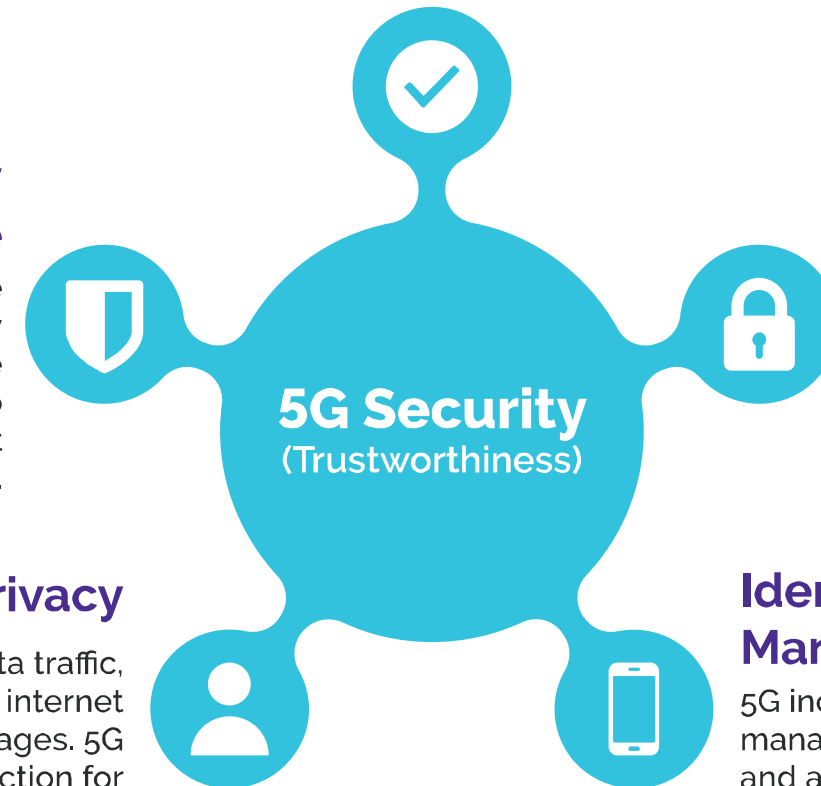
5G resilience to cyberattacks and non-malicious incidents comes through a variety of complementary and partially overlapping features.

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.



Source: Ericsson, 2018

5G


Enabled Industry Digitalization Revenues for ICT Players, 2026

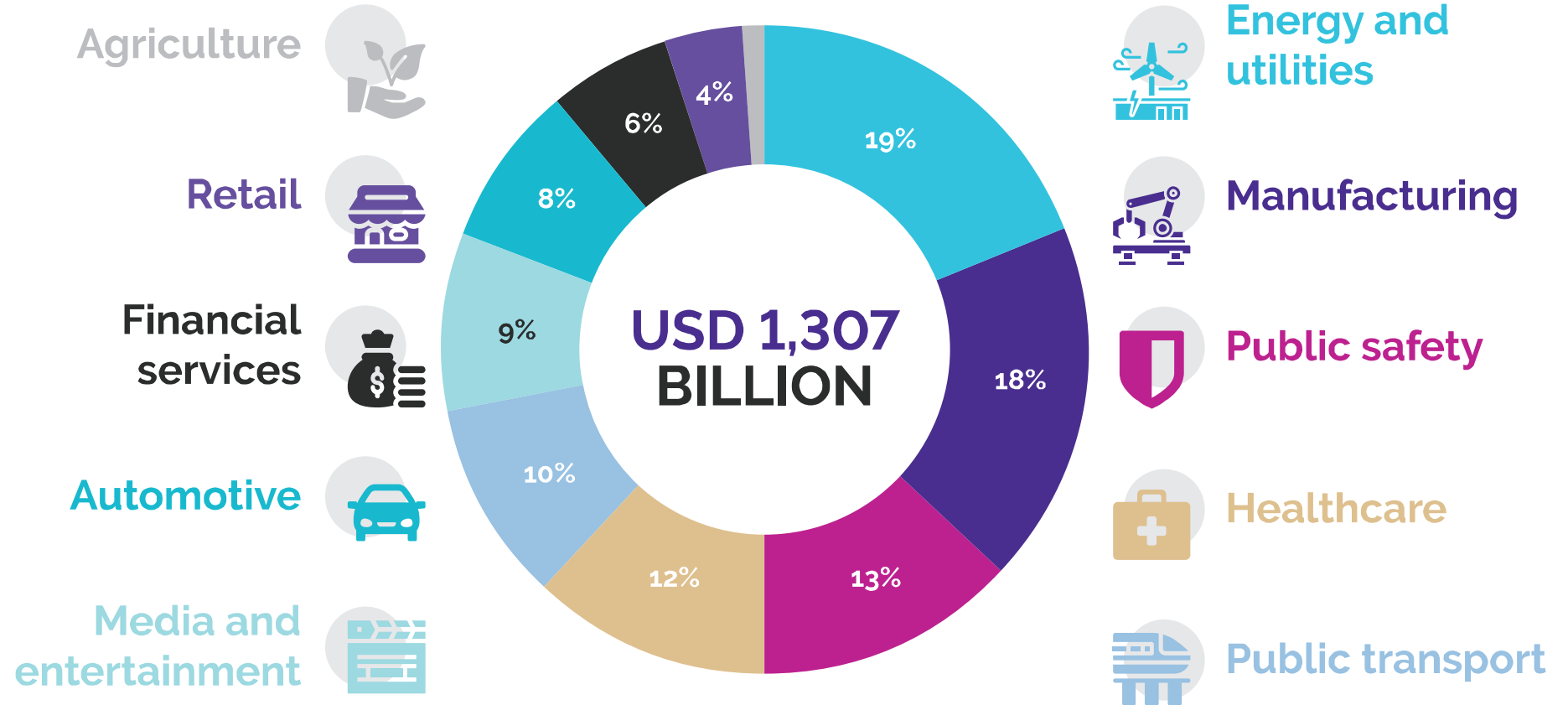
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Source: Ericsson and Arthur D. Little, 2017

Benefits of 5G-Enabled Technology

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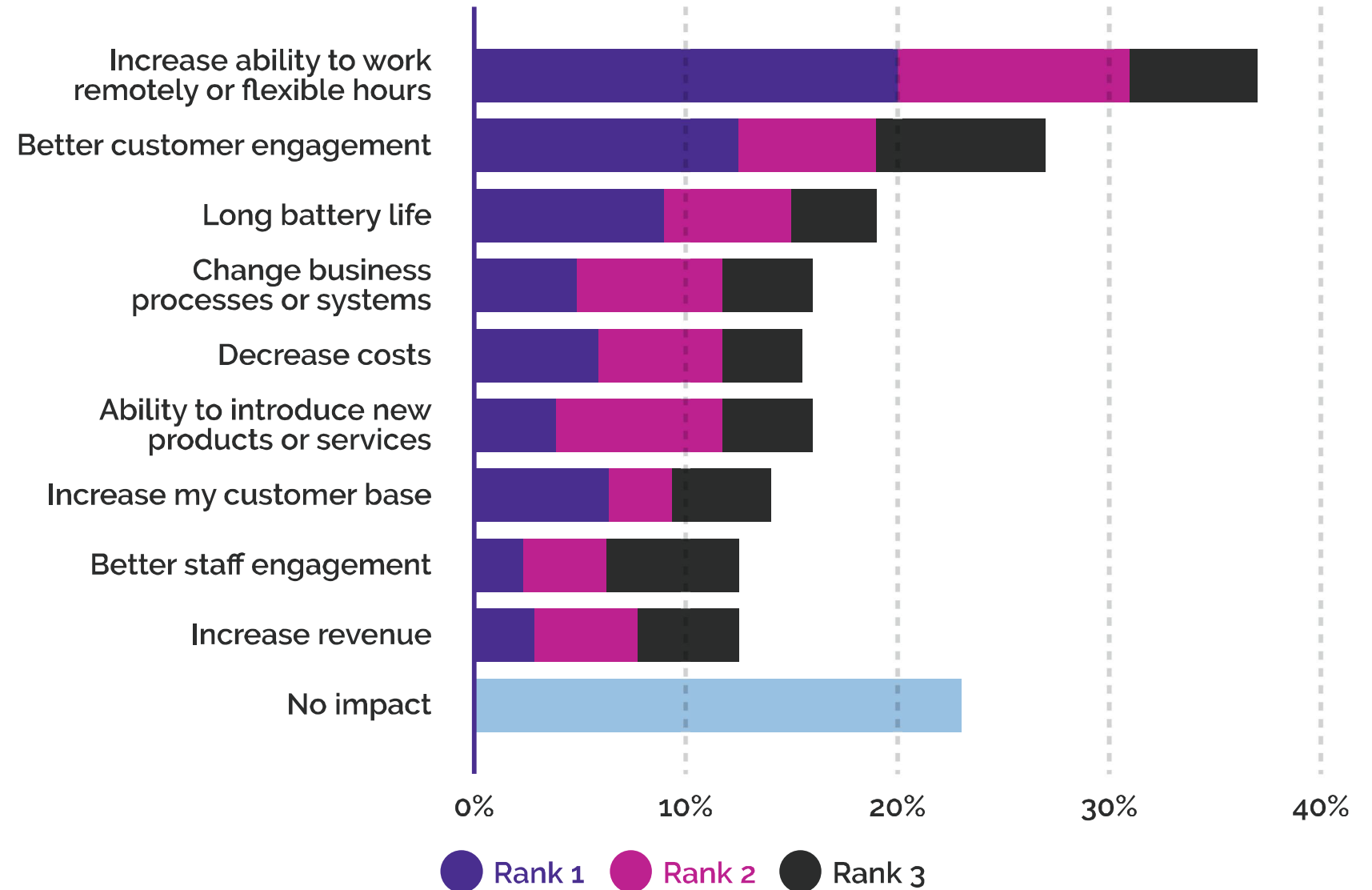
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Source: Deloitte and Research Now, 2018


5G Timeline

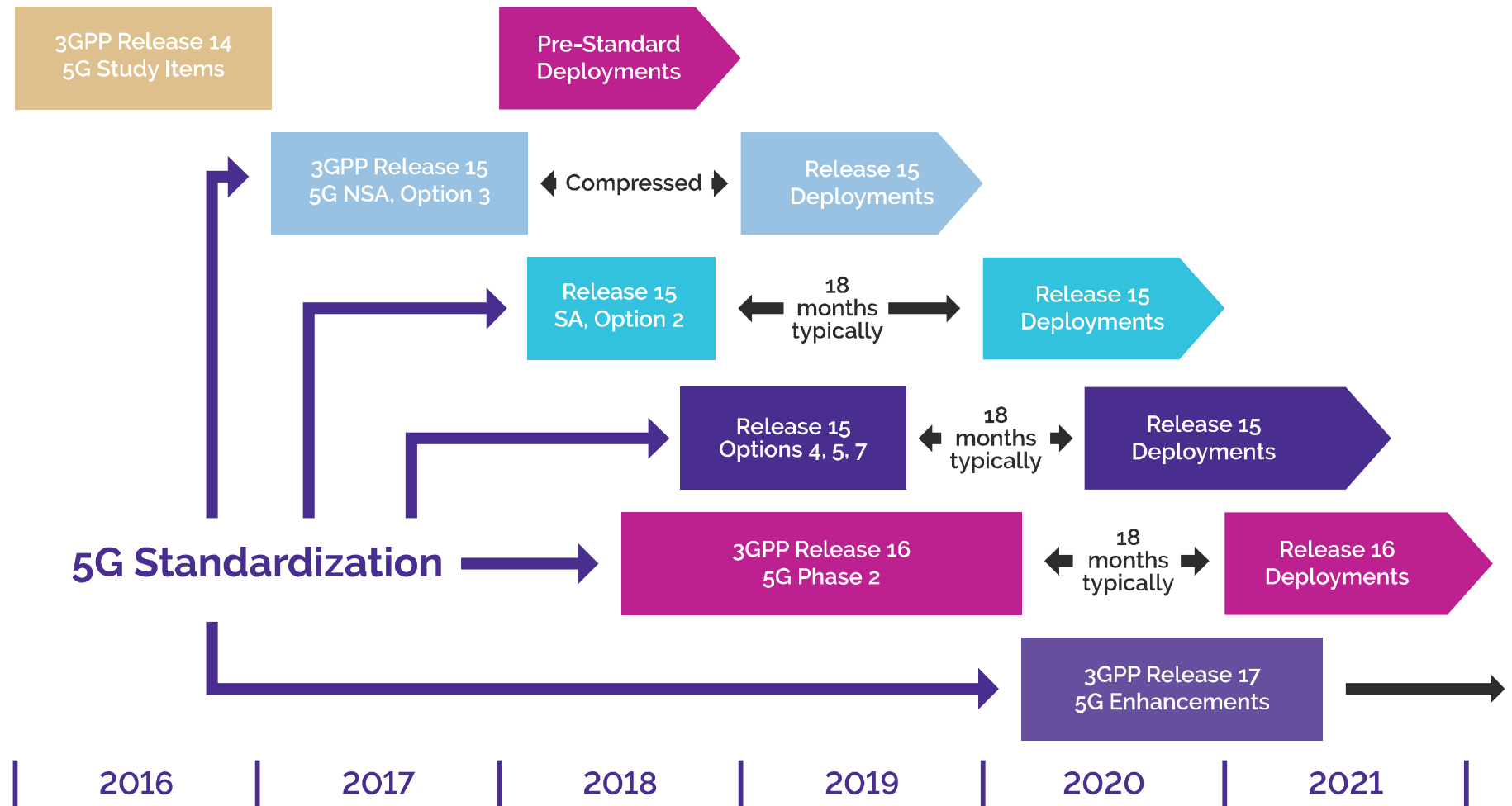
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NSA - Non Standalone

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