

WRC-19 | 31 October

ASMG





Introduction



Opening Remarks

Mats Granryd
Director General
GSMA







GSA

Noel Kirkaldy
Market Development MEA
Nokia



Analyst Industry





Closing Remarks

Mohamed Abbes
Public Policy Director
GSMA





2G

3G

4G

5G



All about calls and texts

The start of mobile data

The arrival of mobile broadband services and applications

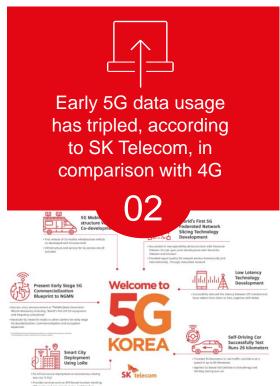
The network adapts to the application

Ultra high speed Ultra low latency New applications



5G Ramps Up









12.5%

It now stands at





5G adoption forecast has increased to







launched across

MARKETS



further launches

markets











ROBOTS

HOTSPOTS





(2018) Mobile operators will invest

S480BN WORLWIDE



in mobile capex

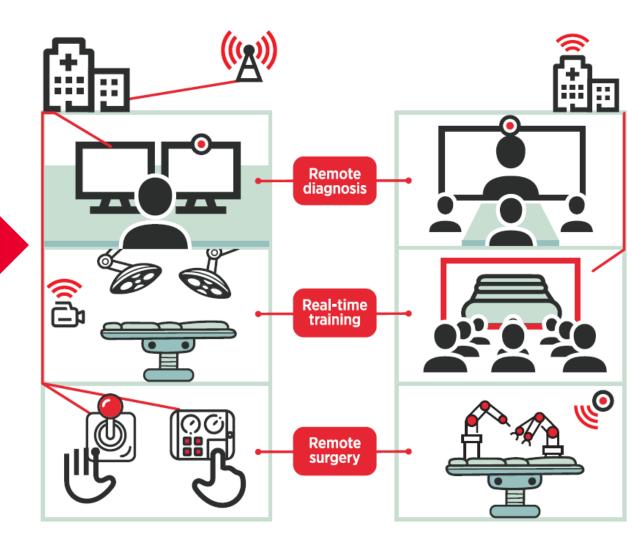




Use Case

5G CAN MAKE IT HAPPEN

Healthcare





The socio-economic benefits of mmWave 5G (2020-2034)

Middle East and North Africa Edition

SDP impact of mmWave spectrum by 2034

\$\\$15.4 \text{billion}\$



TAX \$3.1bn



The share of 5G services using mmWaves