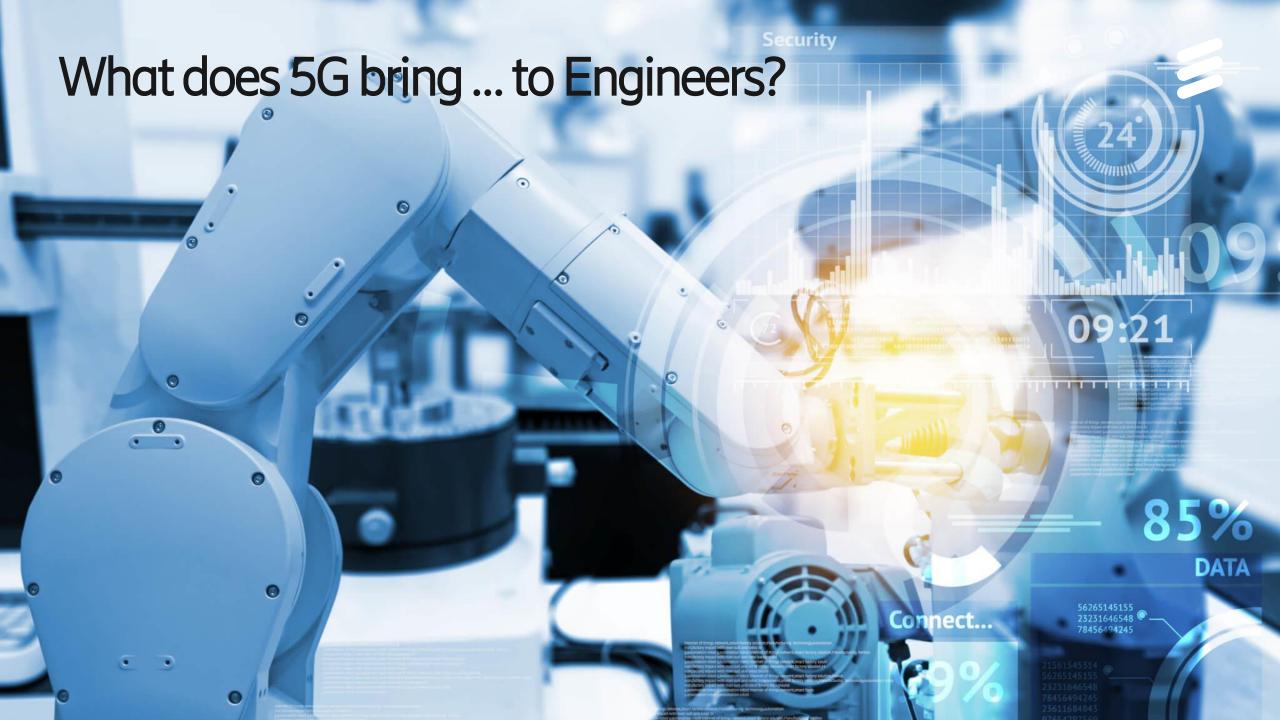




#### 3

# To start with, what is 5G for you?





## What does 5G bring ... to Engineers?



Peak Data Rate

1 - 20 Gbps



Connection Density

10k - 1m devices / km²



Reliability

99.999% (of packets)



User Experienced Data Rate

10-100 Mbps



Network Energy Efficiency

**×1** - **×**100



Latency

1 - 10 ms



Spectral Efficiency

**x**1 - **x**3



Area Traffic Capacity

0.1 - 10 Mbps /  $m^2$ 



Battery life

10 years\*



Mobility

350 - 500 km/h



Availability

99.999% (of time)



Security

Strong subscriber authentication, user privacy and network security

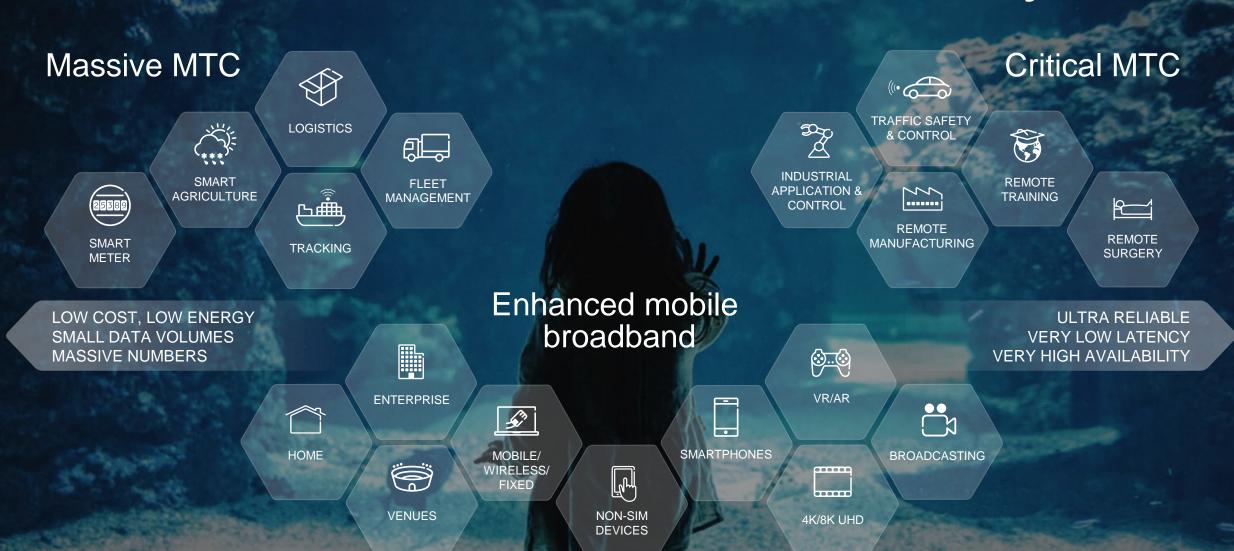






## What does 5G enable ... for businesses and society?



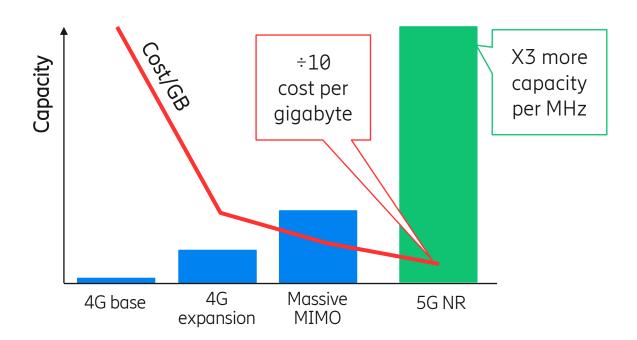


# 5G—the first standard to be developed with a key aim to support future developments



5G allows from moving from an initial focus on cost-efficiency for enhanced MBB, ...

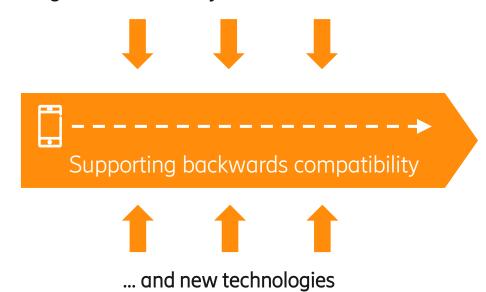
Relative capacity and cost-efficiency per step



... to addressing new use cases by incremental additions of functionality



Adding new use cases by software...



2020-12-01 | Page 7 Source: Ericsson modeling

## Mobile cloud gaming — an evolving business opportunity

22%



Of the 106 communications service providers with commercial 5G, 22 have a mobile cloud gaming offering



The cloud gaming service subscription model is used by 19 out of the 22 CSP



Cloud gaming is bundled with 5G data plans by 6 out of the 22 communications service providers



Premium data plans for 3 of the 22 CSPs include zero-rating for gaming



# Ericsson USA 5G smart factory bringing manufacturing into the future





En2end digital thread for radio HW production



AR for remote support



Drones for outdoor security operations



Energy management



Environmental monitoring



Digital material tracking and visualization



5G Private Network at the Smart Factory in Lewisville, TX



28GHz (5G network), AWS (anchor)\* and CBRS\*\*





AR for work instructions & Expert Info



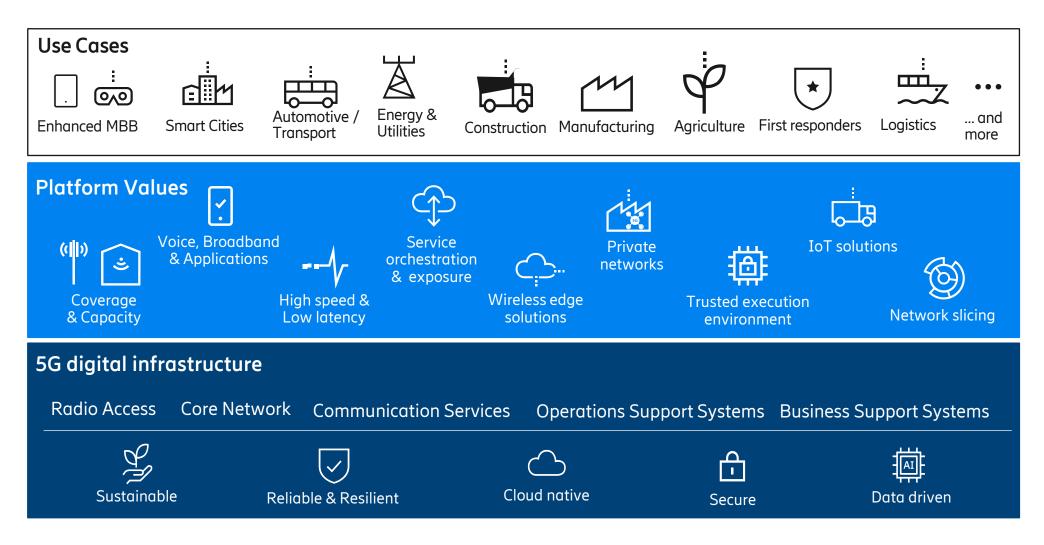
AMR (Autonomous Mobile Robot) moving SM6701 to OTA



Drones for outdoor surveillance and indoor warehouse inventory and inspection

### We are building a connected innovation platform





### First 18 months of 5G in numbers



as of Dec 2020

~110

commercial networks



countries

190 m subs globally by end 2020

 $+108 \, \text{m}$ 5G devices

- -+108 m 5G devices sold Jan-Sep 2020
- —China Telecom and China Mobile: 19% and 12% 5G take up (Sep'2020)
- —..., 200 m subs on 5G plans (70% also had 5G devices)

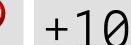
13.7 million

- 5G subs forecasted in USA by the end 2020
- Only 9 months for all 4 CSPs to launch 5G (vs 30 months for 4G)

90%



—Swisscom achieved its target of 90% coverage with 5G leveraging ESS



### million

- -5G subs > 15% of customer base (Sep 2020)
- -+29% of traffic on 5G network
- —Avg 5G user 38.1 GB/m vs 18.8 GB/m in 4G

+400



- —Sep'2020: +220 5G devices available, +400 announced
- -ASP > \$1,000, now at ~ \$600
- -5G iPhone to accelerate ecosystem build-out



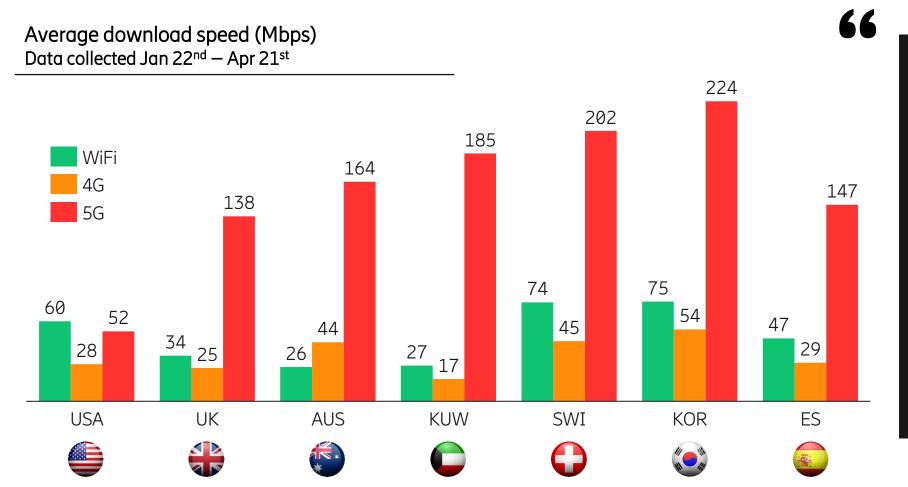


### During the pandemic



— 5G download speed much faster than Wifi in seven leading 5G **OPENSÎGNAL** 

countries



- —5G offers faster average DL speeds than WiFi
- -Importance of not letting the current COVID-19 crisis delay 5G rollouts because the increased capacity and faster speeds that 5G enables are critical to keeping people connected today and in the future with rising network usage

2020-12-01 | Page 13 Source: OpenSignal link





- Significant increase in traffic forecast for North East Asia and South East Asia and Oceania
- Global mobile data traffic is projected to grow by a factor of 4.5 and reach 226EB in 2026
- Video traffic currently accounts for 66% of mobile data traffic and forecast to increase to 77% in 2026

#### Global mobile data traffic (EB per month)

