

# 5G Standalone Monetization Options



“5G Advanced Services” Innovation Seminar



COMMUNICATIONS  
REGULATORY COMMISSION  
OF MONGOLIA

# 5G Speedtest Measurements

Global figures

214

Global 5G Live Networks  
GSA 06/22

29

Global SA Live Networks  
GSA 08/22

~28 GB

Mobile data consumption  
South Korea 06/22

70 %

5G devices traffic  
South Korea 06/22

Ericsson figures\*

125

Ericsson 5G Networks

55

countries

17

Ericsson SA Networks

12

3

65

2

15

12

5

6

4

11

3

\*As of August 2022

# 5G Ecosystem is Already Mature



**111** operators in  
**52** countries are  
investing in 5G SA

**1,105**  
5G devices  
commercial

**76%**  
of the commercial 5G devices  
support SA

**71%**  
of commercial 5G SA  
devices are smartphones

**29** commercial 5G SA  
networks in **18** countries

**Sub 6GHz**  
the most supported bands  
n78,n41,n1,n77,n28

**66**  
commercial modems from 5  
chipset vendors support SA

**34** chipsets support  
5G NR CA and **50**  
support VoNR

# SA Introduction

Easy migration to SA with Software update

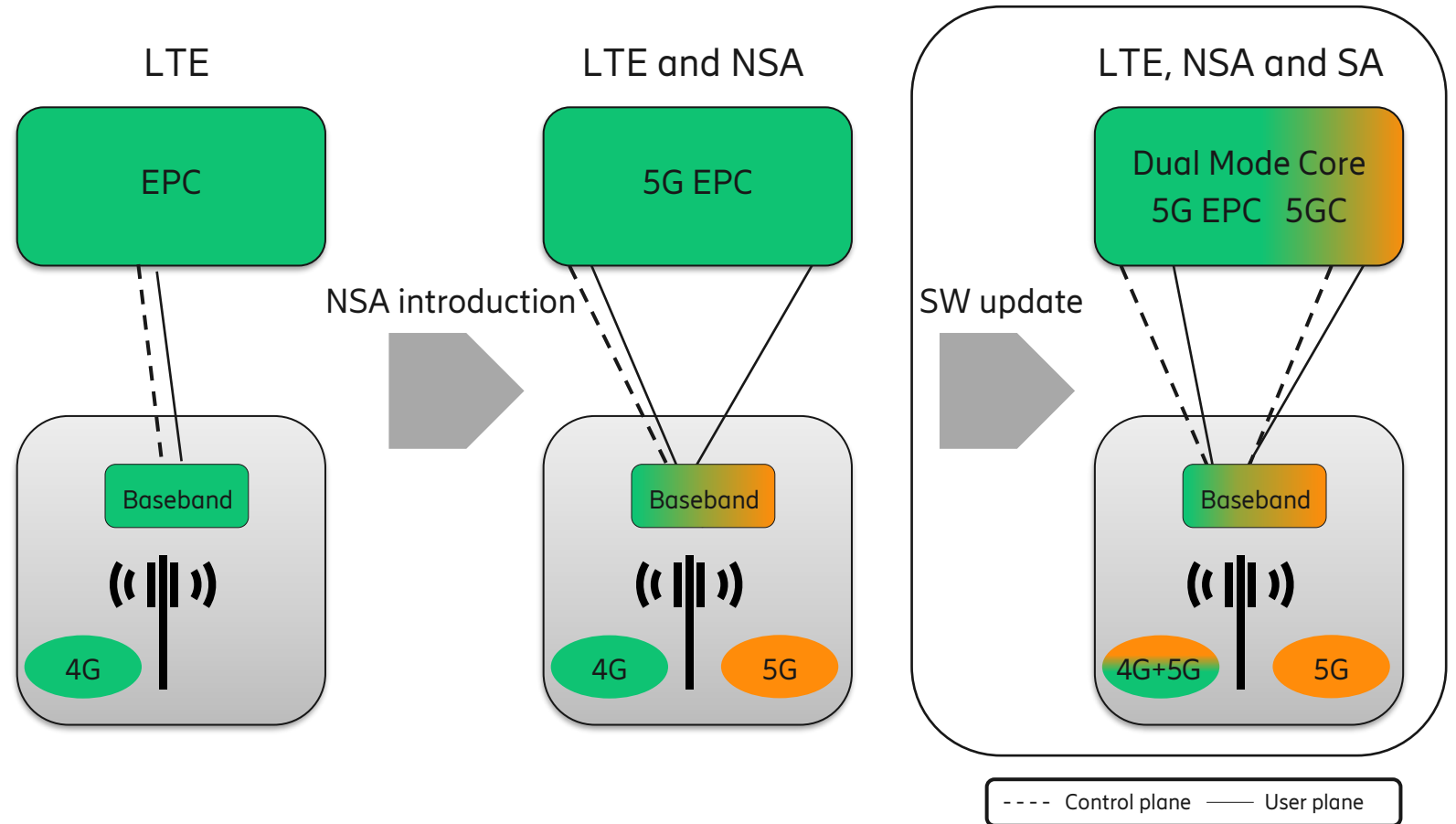


Dual mode 5G Core

NSA and SA co-exist in the same cell

Mixed mode NR-LTE Baseband

SA introduced in LTE spectrum using Ericsson Spectrum Sharing



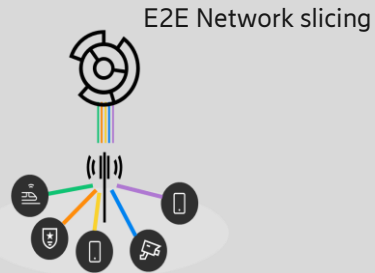
Enabling NR SA on existing hardware and spectrum

# 5G Standalone Key Tech Benefits

SA vs NSA

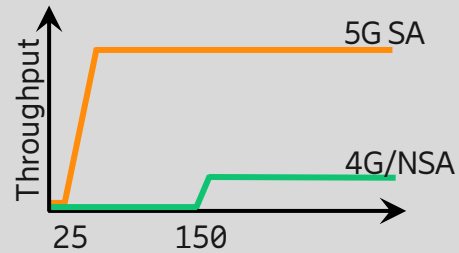


New Business opportunities



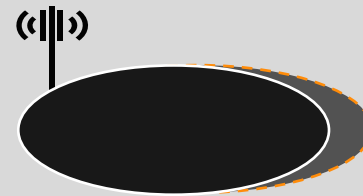
New services and service differentiation

Enhanced End-user experience



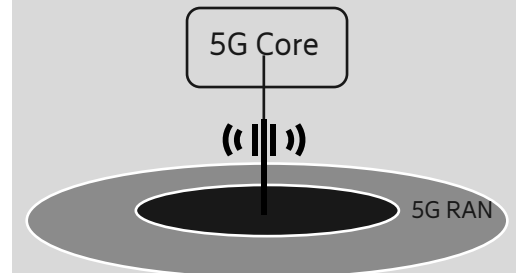
Get instant access to 5G

Network Efficiency



Extend 5G coverage

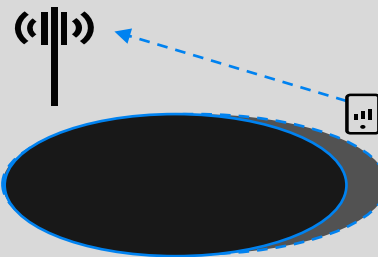
Less complexity



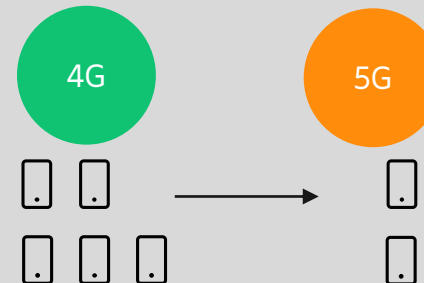
Network Simplicity



Time Critical Communications



Better Uplink Coverage



LTE offload

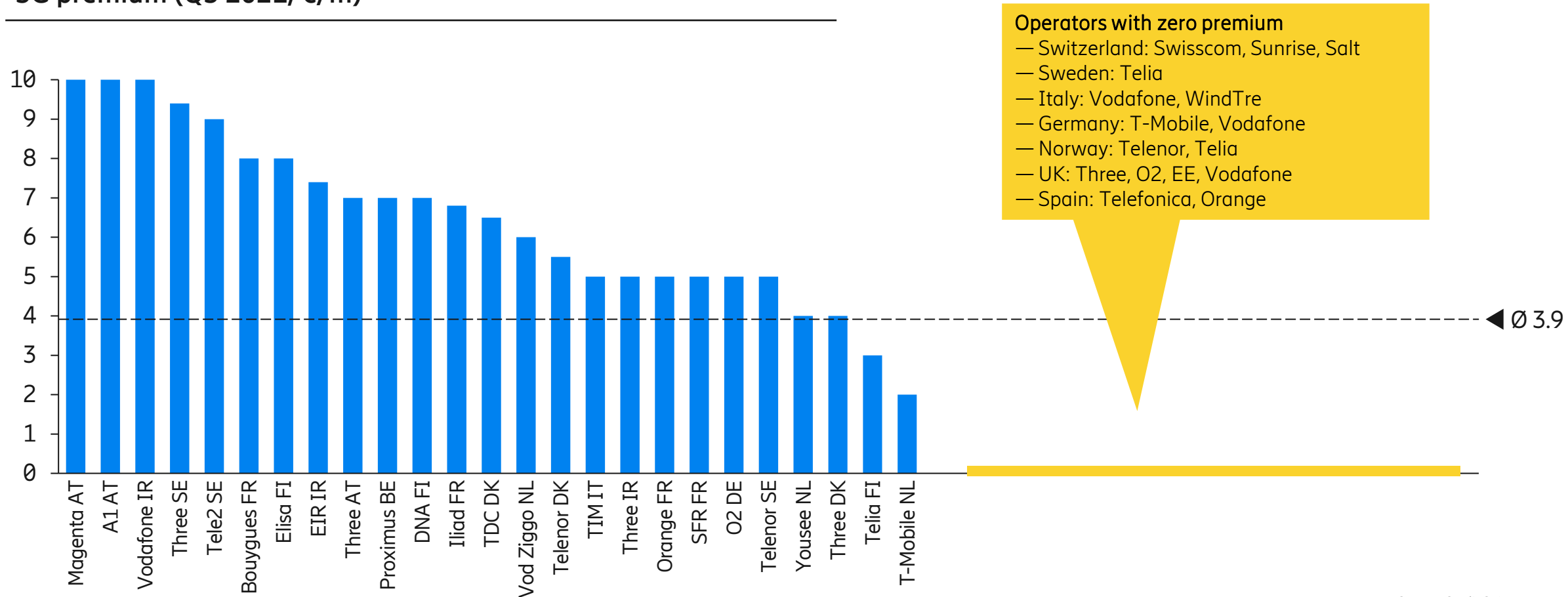


Device Simplicity

# 5G premium

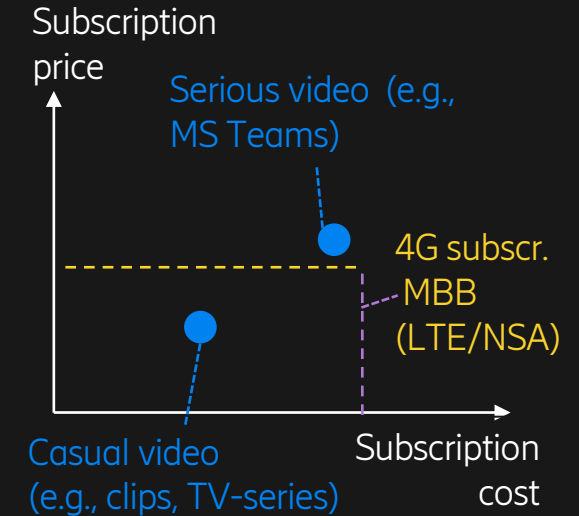
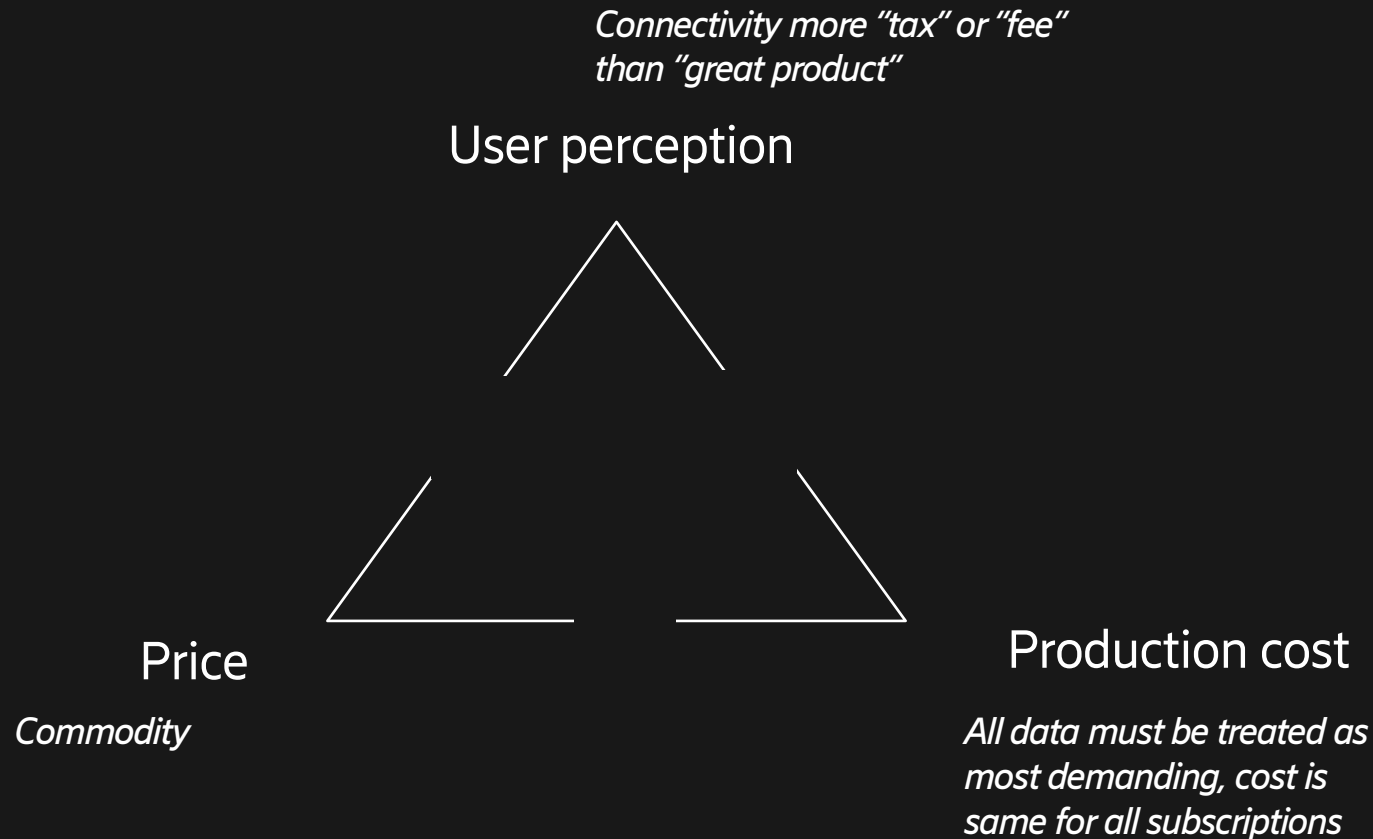
— While several CSPs offer 5G at no extra cost, eroding 5G premium further (€3.90/m vs €4.20 in Q2 21), some markets are extracting value

5G premium (Q3 2021, €/m)



# Mobile internet dilemma – today's problem

## price-perception-cost disconnect



# User choices



*I need an internet subscription*



Consumer

*Connectivity is part of a service I deliver so it needs to have B2B SLA*



Heat-pump support

*My app needs better real-time connectivity*



Drone-pilot

*My app needs better security*



Bank

*Here are 5G SA subscriptions for your needs*



CSP

*My employees/students need connectivity to our intranet, but I can't pay for their private use*



Employer

*My patients need good connectivity to our services, and they shouldn't pay*



Hospital



# 5G Applications 2023+

## Microsoft Teams

Consumer (private)

- Internet (Net neutrality)
- GB paid by private subscription

Professional

- Works at high network load
- Paid by employer

## Uber

Passenger

- Internet (Net neutrality)
- GB paid by private subscription

Driver

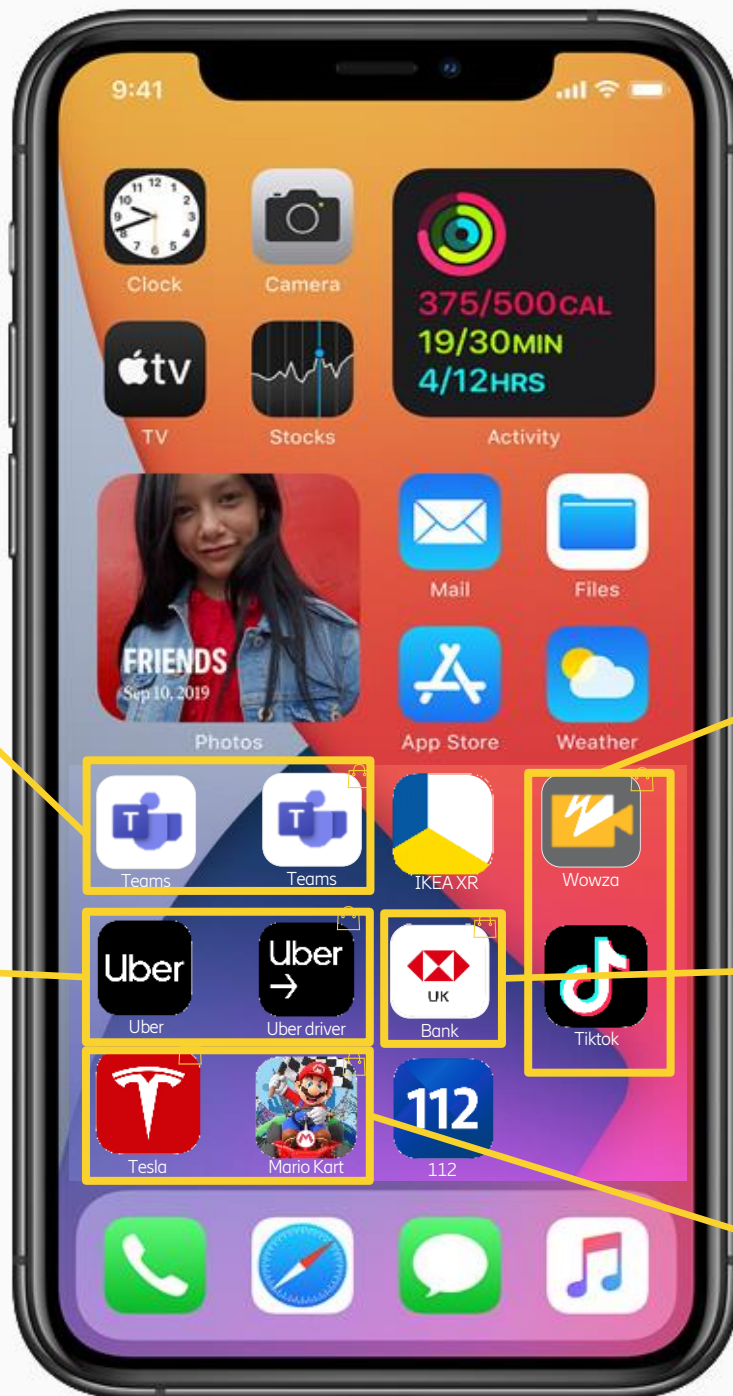
- Works at high network load
- Paid by Uber

Consumer-apps

Professionals-apps

Citizen-apps

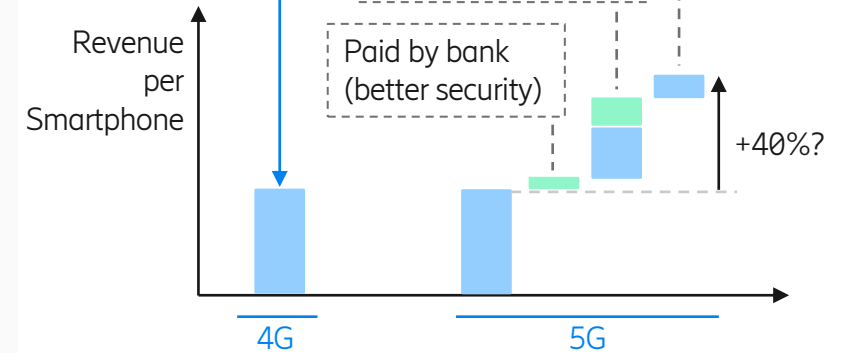
Three roles  
one  
Smartphone



Example: Nurse's personal subscription

Paid by employer (always reachable)

Paid by bank (better security)



## Video-to-cloud

Wowza (professional)

- Paid by server-owner
- Tiktok (private)
- Best effort Internet
- GB paid by private subscription

## Mobile banking

- Isolated slice
- Directly from 5GC to server
- Paid by bank

## Remote vehicle

Mario Kart

- Real-time subscription
- Paid by private person
- Tesla
- High reliability subscription
- Paid by car owner

# Monetize 5G for smartphones



From monthly subscription

To Multi-subscriptions, Multi-pay & "5G as a platform"

MBB logic

Beyond MBB logic



20€/month for 30GB/month  
With optional bundled services and content

Data Volume  
Tiering

All connections are equally  
treated

**Premium subscription**

- ✓ Working from Home
- ✓ Schools
- ✓ On field workers
- ✓ ASL remote health check

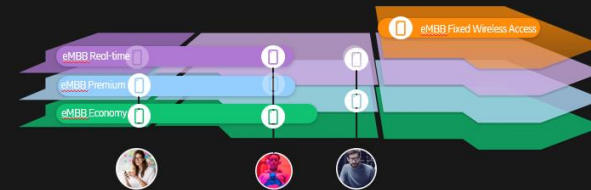
**Economy subscription**

- ✓ Most of today MBB subscriptions



5G slicing is one of the key areas of innovations that will let CSPs earn a return on their investments in 5G, by offering a secure and dynamic network platform to enterprises.

- Google



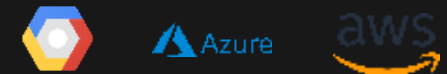
B2B2X

Offer Premium Subscription to App developers, OTTs who, in turn, offer it to their customers through Apps (premium App)



B2B2B

Offer Premium Subscriptions to App developers, HCPs for their customers (es 5G Private Network services based on edge computing)



Different types of connections  
Subscriber, Service and Performance differentiation

# Key takeaways



- 5G addresses the demand created by the era of digitisation
- 5G Standalone is much more than lower latency, higher throughput, slicing and use-cases
- 5G Standalone should come with mid-band TDD, low-band FDD homogenous coverage and Network Slicing
- More importantly – 5G Standalone is a toolbox for CSPs to create new offerings
  - Connectivity with different characteristics
  - New types of subscriptions
  - New ways of billing and charging





[ericsson.com/5g](https://ericsson.com/5g)