



**SAMSUNG**



# Samsung & 5G

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# SUMMARY

- I. Why 5G ?
- II. Samsung status
- III. 2019 : a key year ?
- IV. Future issues





# I. Why 5G ?



- ◇ Theory → 20 Gbit/s
- ◇ Practice → 100 Mbit/s
- ◇ Latency → 1 ms
- ◇ 1 000 000 devices / km<sup>2</sup>
- ◇ Guaranteed connection up to 500 km/h

KEY NUMBERS !





# I. Why 5G ?

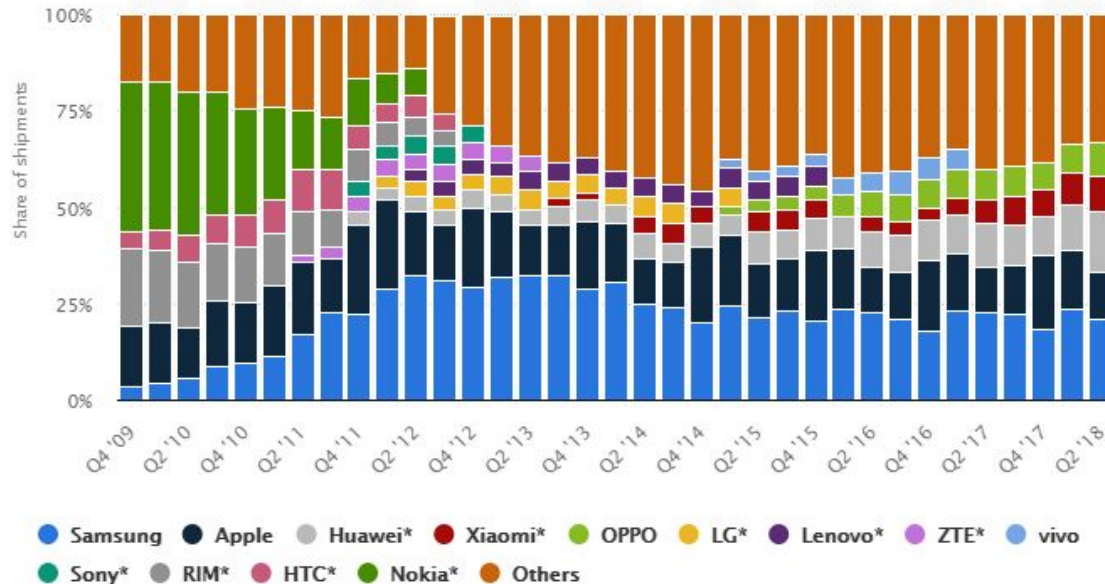
- ◇ Estimated impact on the economy in 2035 :

**\$12.300 billions generated !!**

- ◇ 22 millions of new employments
- ◇ 88% of new products and services
- ◇ France : \$85 billions of incomes  
400,000 of new employments



## II. Samsung status





## II. Samsung status

- ◇ International leadership :

**2017 → 317,3 millions of smartphones sold**  
**21,5% of the global sales !**

- ◇ More and more disputed :  
Competitors : Huawei, Xiaomi, Oppo...

→ Real need of renewals and innovations !





# III. 2019 : a key year ?

◇ Samsung try to be a leader in 5G : need to be a pioneer to stay in the competition.

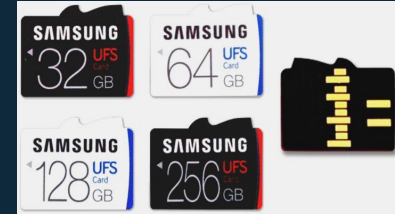
## ◇ Exynos Modem 5100

- Multi-mode modem : 2G to 4G LTE
  - **5G NR** compliant : **sub-6GHz** & **mmWave**
  - Download Speed =
    - 2Gbps with **sub-6GHz**
    - 6Gbps with **mmWave**
  - **Single chipset** including Modem, RF IC, Envelop Tracking & Power Management IC
- Available for constructor by the end of 2018.



# III. 2019 : a key year ?

- ◆ New Universal Flash Memory : UFS 3.0
  - Transfer file rate = **2,9 Go/s**
  - Capacity : 128, 256, 512 Go & 1 To for 2021



- ◆ Include 5G in the next generation of smartphone :
  - Samsung Galaxy S10 : mostly 4G but a 5G model will be available (Exynos 5100)







# IV. Future issues

## ◇ WHAT ?

Need to preserve the leadership !



## ◇ WHY ?

To keep Samsung in front of the stage



## ◇ HOW ?

Offer every year improvements & innovations



→ 5G is the key technology for the next years !





“Thank you !



# Sources

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## Slide 5:

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## Slide 6:

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Slide 8:

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