

Investment and digital infrastructure

Do we need new grand infrastructure schemes?

5G will not compete with fiber...but also needs investments in fiber

●●● Frédéric PUJOL
Head of wireless practice
f.pujol@idate.org

15 November 2017

5G will not compete with fiber

5G needs fiber to cope with the tremendous data traffic increase

- Huge backhauling needs
- A limited overlap between fiber and 5G in specific geographical areas
- Rather complementary access technologies

5G access network: how many new cell sites?

- x2 – x3?
- Probably enough capacity with 700 MHz and 3.4-3.8 GHz bands in Europe until 2022-2023
- Use of mmWave bands for capacity first

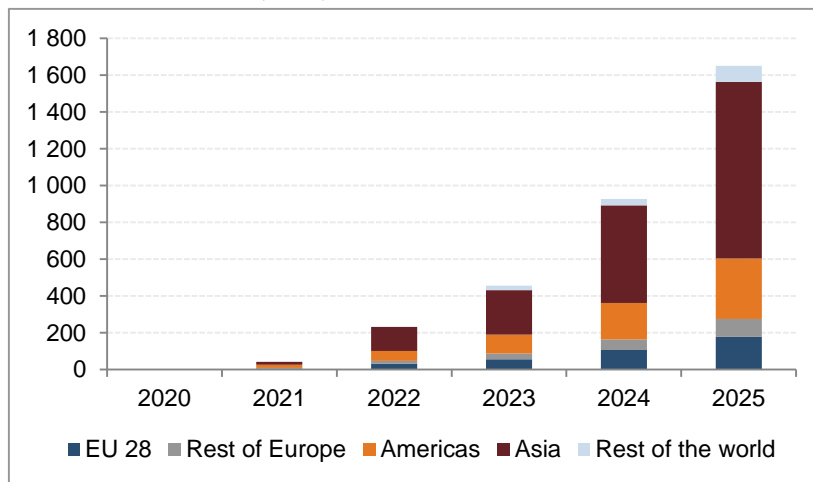
5G CAPEX needs

- Rapid investments needed in order to attract verticals
- Co-investment? Complementary investments?

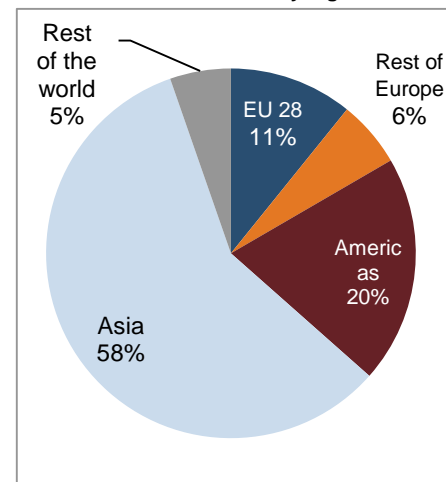
5G will be launched in 2019, becoming more widespread in 2020

According to IDATE, there will be more than 1.6 billion 5G subscribers in 2025

5G subscribers forecasts (million)



5G subscribers breakdown by region in 2025 (%)



Source: IDATE DigiWorld