Ovum

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# 5G WORLD

## INSIGHTS REPORT

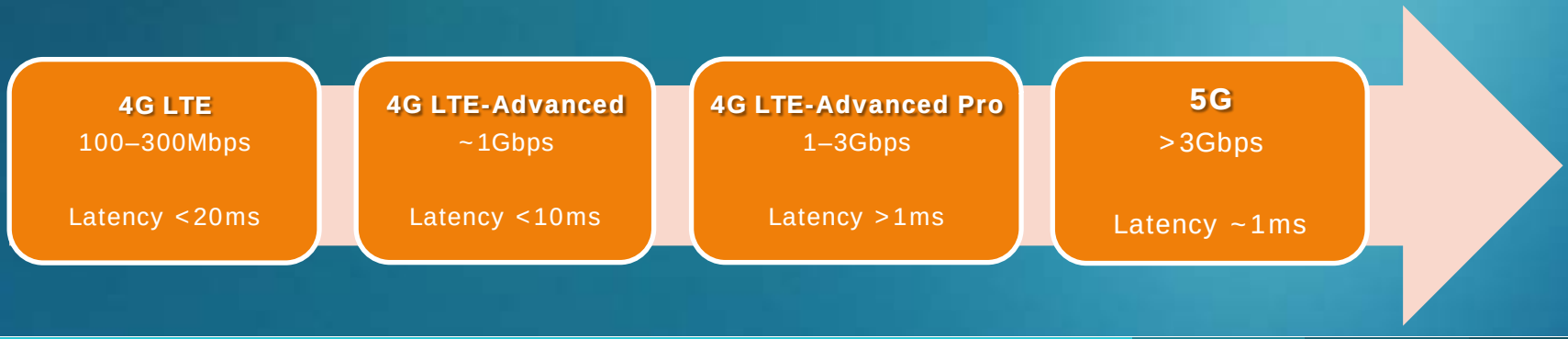
Telefonica

# 5G is being designed to serve three very different use cases or market segments:

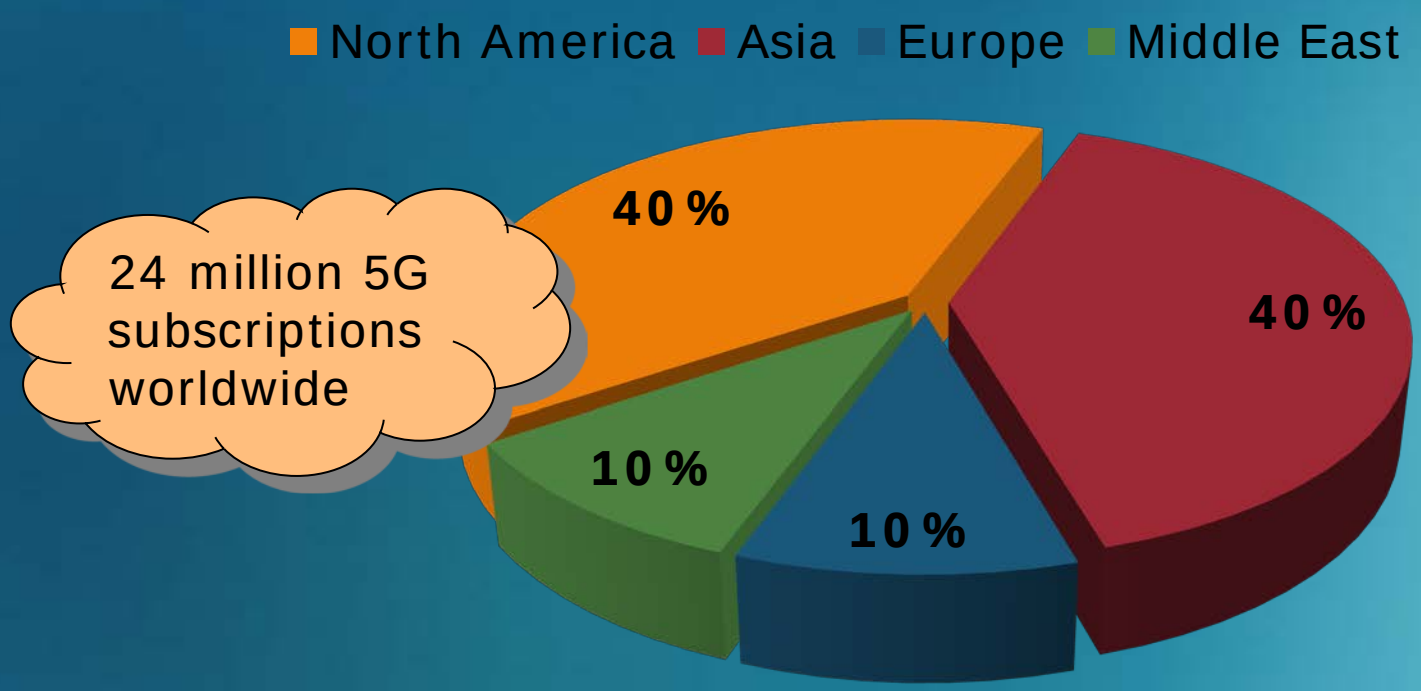
**Enhanced mobile broadband:** High speed (Gbps), latency down to 1ms, high spectrum above 6ghz.

**Massive Internet of Things:** Low power consuption, low cost, provide broad and in-building coverage.

**Ultra-reliable communications:** High reliability, high availability, and low latency down to 1ms end to end.



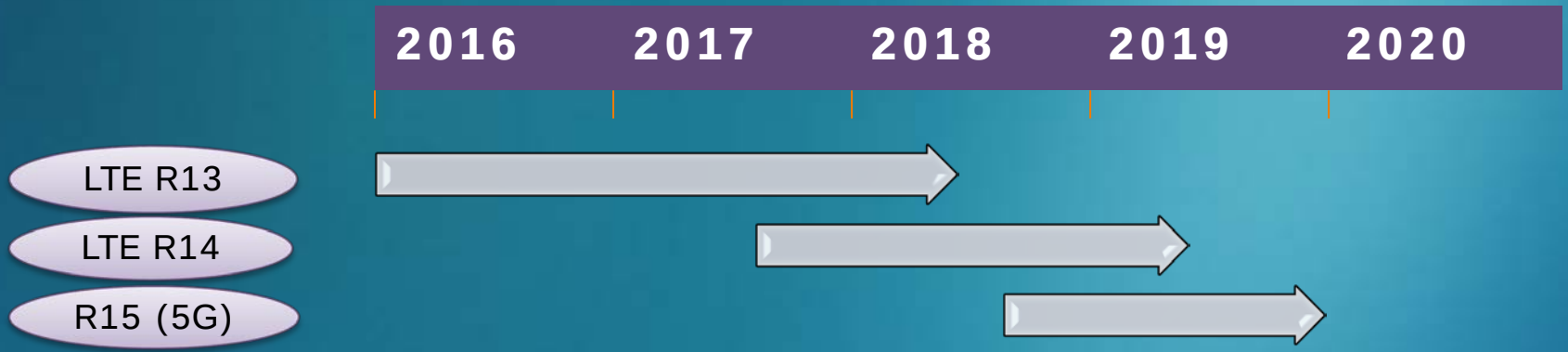
# 5G Subscriptions at 2021




Ovum defines a 5G subscription as an active connection to a 5G network via a 5G device.

# Planned 5G first commercial launches

| Operator | Region | Country | Launch Day |
|---|---|---|---|
| SK telecom | Asia-Pacific | South Korea | 2017* |
| verizon wireless | North America | US | 2017* |
| Telia Company | Europe | Sweden | 2018* |
| vodafone | Multiple | Multiple | 2020 |



# Issues concerning the definition, adoption, and commercialization of 5G

- How networks will evolve from 4G to 5G
- Where and how 5G will start to be deployed
- Which spectrum bands will be used, what the licensing models will be, and whether a globally adopted, harmonized band will emerge
- Which are the most promising and potentially profitable business models for 5G
- Which devices will be used on 5G networks
- How operators can plan for the right level of investment in 5G