



Koloběh digitálního života

Klasikův epitaf praví:

"Budoucnost patří 5G"

20.září, 2018 Hynek Urban Nokia



Proč 5G?



From Vision to Reality – 1 GB per User per Day

Nokia vision from 2011: "1 GB per user per day in 2020"

1 GB per day for you and you and you...

OBILE DATA



5500 TB/day / 5.5M population

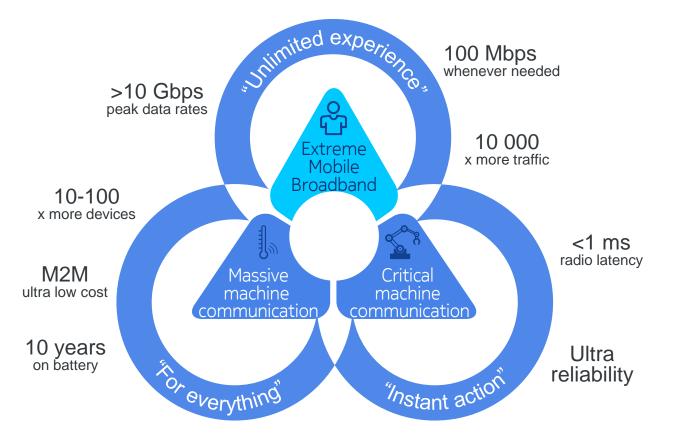
1 GB/user/day



Austria approx 5000 TB/day = 0.6 GB/person/day. It will exceed 1 GB by 2020

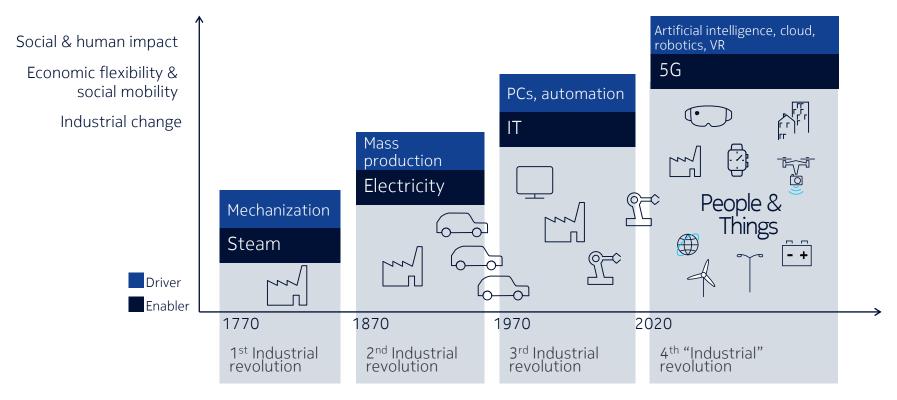


5G Requirements and New 5G Business Models



NOKIA

4th "industrial" revolution powered by 5G

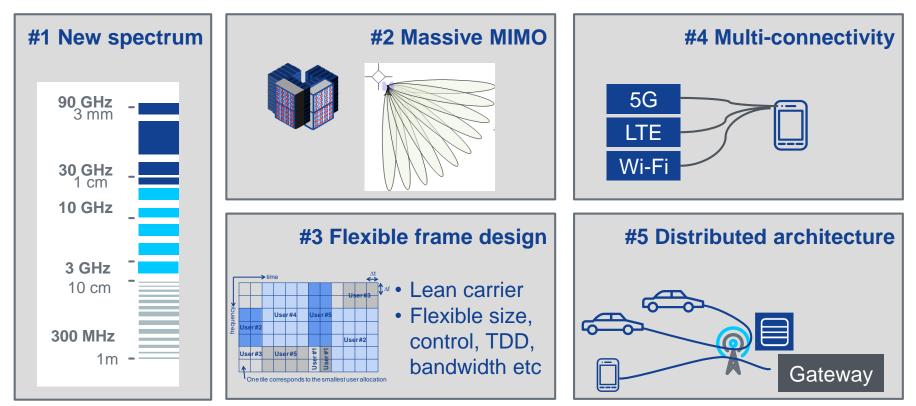




Stavební kameny 5G



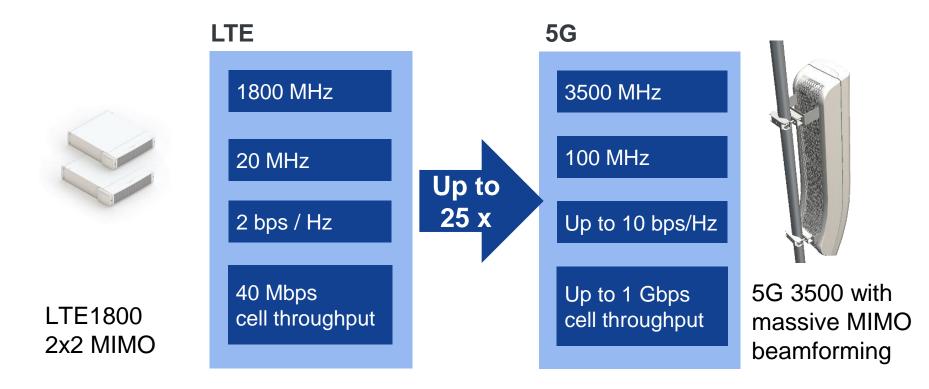
5G Key Technology Components





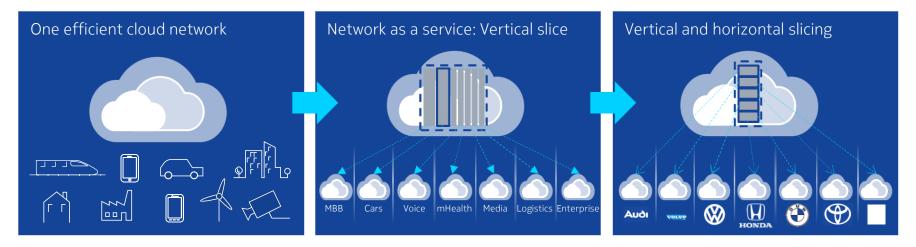
5G Boosts Cell Capacity by 25x

5x More Spectrum and 5x More Efficiency



NOKIA

5G Network slicing — Vertical and horizontal slicing support



Today's network serving all services and devices

Vertical slicing for service verticals, device segment and customer segments

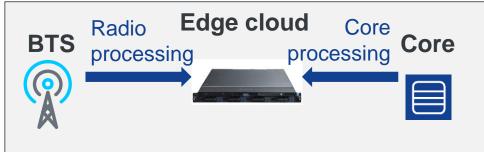
Vertical and horizontal slicing for MBB service + Consumer specific customization



Network Architecture Evolution Towards 5G

BTS Core Image: Second seco

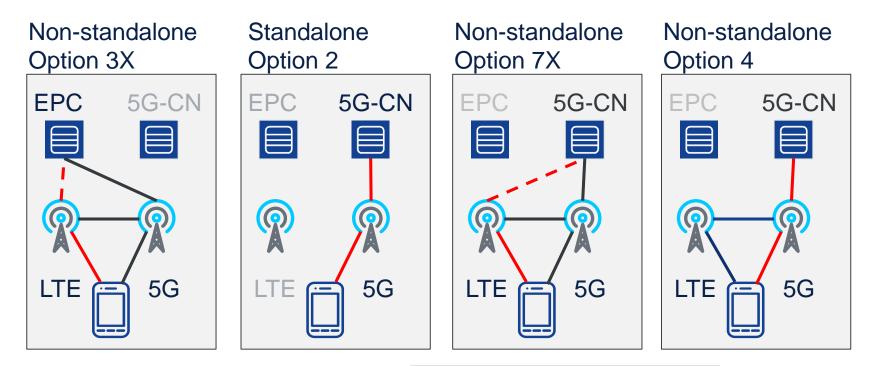
Target



Radio more centralized for faster scalability
Core more distributed for low latency



Main Architecture Options



Option 5 = LTE connected To 5G core (Known also as eLTE)

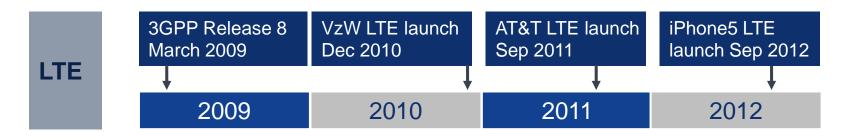
- - = Control plane only
 - ----- = User + control plane
 - ----- = User plane only



Kdy to nastane?



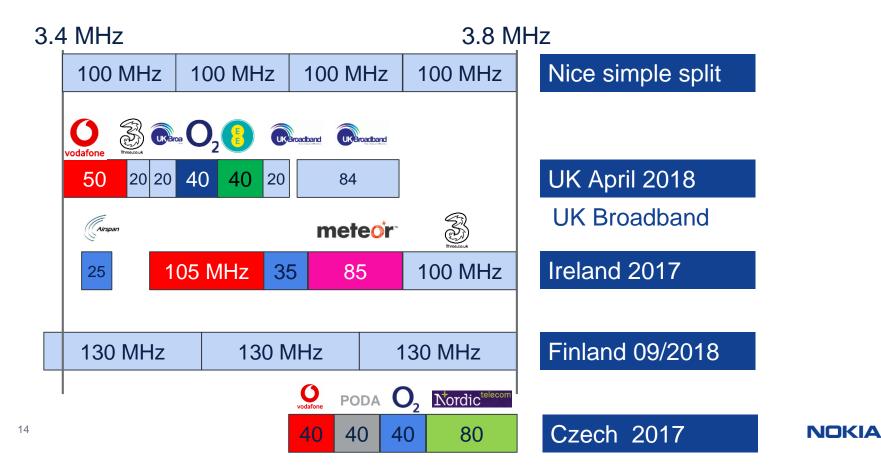
LTE History in 3GPP, US Operators and iPhone Support





- LTE schedule is historical facts
- 5G schedule is still speculation but 5G launches and smartphone availability may happen faster than in LTE

3.5 GHz Spectrum Allocations



Kde se bude 5G používat?



5G early market use cases

Nokia study unveils high value use cases and their business models

