

WAS#10
VoLTE & 5G ROAMING
ROUNDTABLE

October 28, 2019 | Valencia, Spain



SETTING THE 5G SCENE

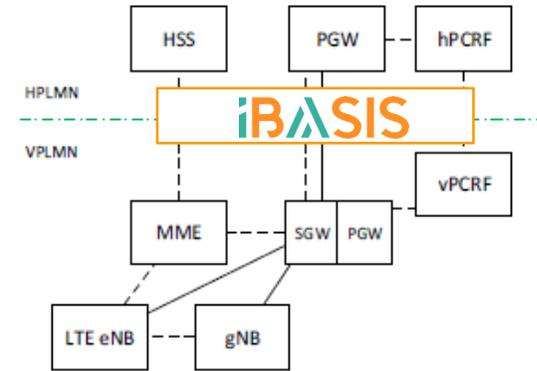
Bill Welch



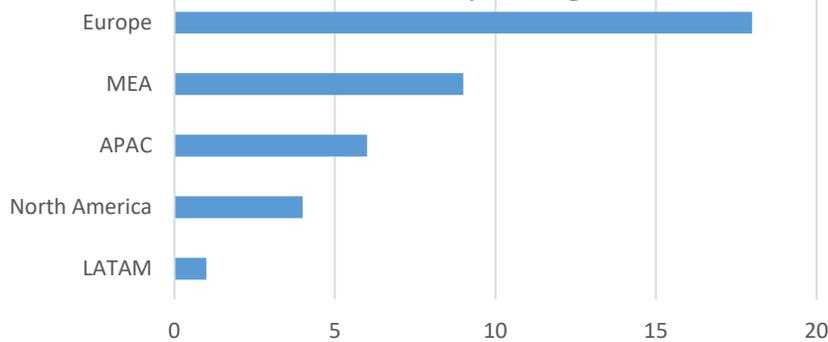
SINCE WE LAST MET.....

- (38) 5G deployments World Wide
 - Non-Standalone Architecture is 5G radios bolted on to 4G network
 - Existing 4G IPX services are used for roaming
- Europe, Middle East, APAC and South America all are represented
- 5G roaming has begun with Vodafone, SK Telecom, Swisscom, Elisa and LGU+ announcements

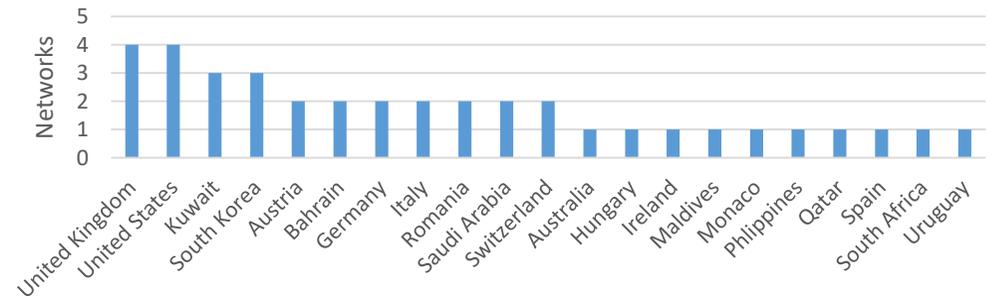
Home Routed Non-Standalone Architecture



5G Networks per Region



5G Networks per Country

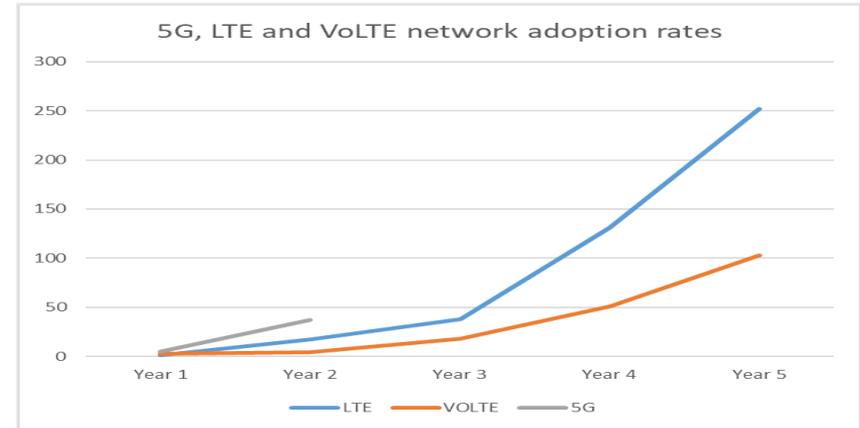


SPEED OF DEPLOYMENTS AND BUSINESS CASE

5G is the fastest adopted cellular technology

South Korea @ 3M subs in 174 days

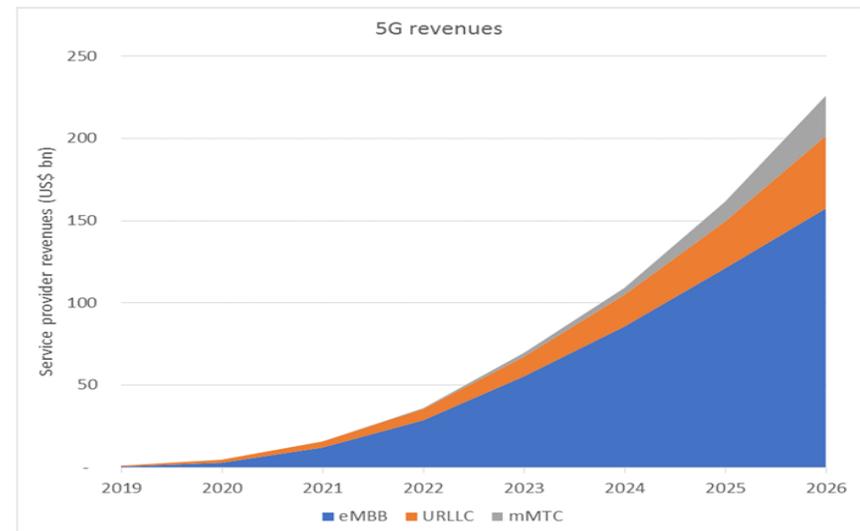
Gartner, IDC and Nomura have all increased the projected amount of phones by 5 to 10%



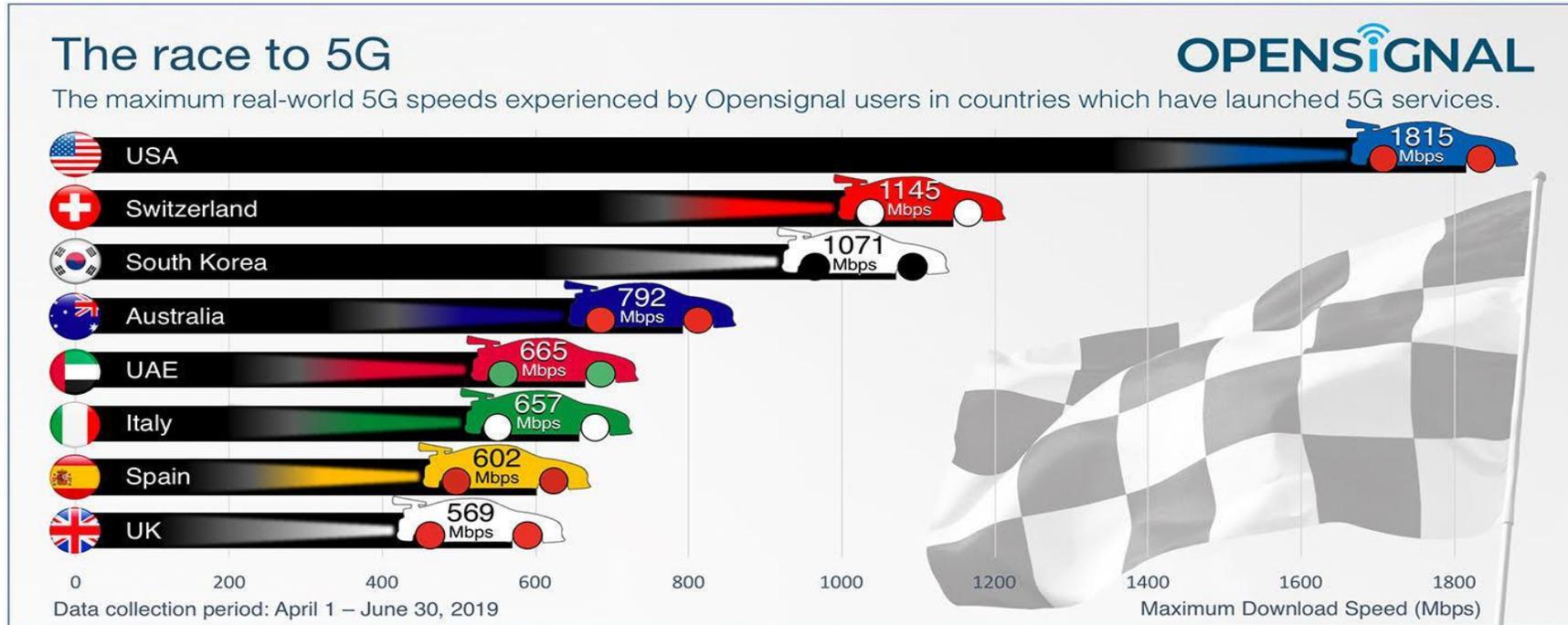
eMBB drives 5G revenue

Ultra reliable and low latency services(URLLC) starts to have impact in 2022 and beyond

Massive Machine Type Communication will come even later due to Success of NB-IoT and LTE-M



2019 IS THE SUMMER OF 5G eMBB SPEED



Peak Speed as high as 1815 Mbps

Reported averages around 100 to 300 Mbps

Source: <https://www.opensignal.com/5g>



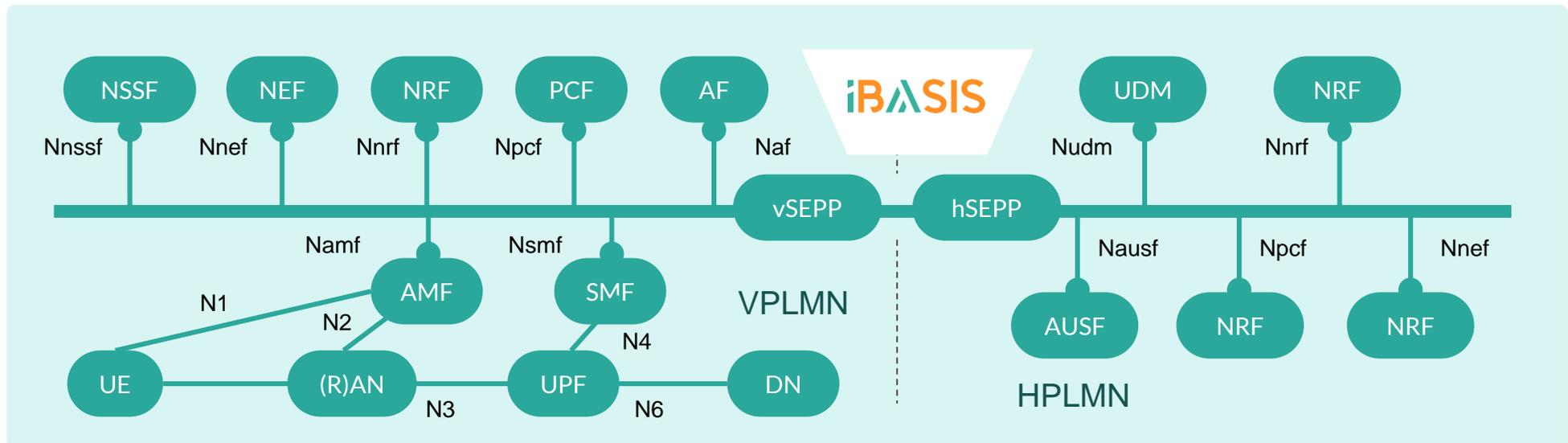
TODAY

5G NSA roaming using existing 4G Services
5G Signaling Sandbox for testing 5G Core

ROADMAP

2020 Commercial
5G Signaling Service

2021 iBASIS Hosted 5G core
Accelerate testing
Prove out business cases
Regional Breakout



- Race to 50M 5G Subscribers is on and with that comes commercial 5G roaming
- No technical barriers to start 5G roaming today
- 5G roaming is a Commercial and Operational question

QUESTIONS

- Which is a higher priority - VoLTE or 5G Roaming?
- What have you learned so far on 5G and what information do you need?
- Are there 5G use cases and experiments that you can share?
- Do you have any 5G experiences that you can present next time?



WRAP UP



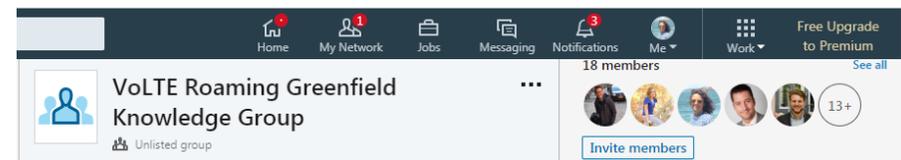
ROUNDTABLE HIGHLIGHTS SUMMARY

Takeaways

Suggestions & Actions

Next Steps

Continue the discussions &
Join the LinkedIn group:



<https://www.linkedin.com/groups/8675420/>

BE THERE FIRST



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