



5G Ecosystem

Hector Marin

SPECTRUM

THE FUNDAMENTAL ELEMENT OF MOBILE



5G ECOSYSTEM UPDATE

Hector Marin
GSA CITELE



Qualcomm

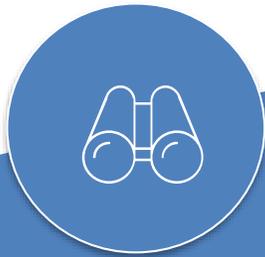


NOKIA



SAMSUNG

VISION



VISION

wirelessly connect almost all 7 billion people globally to new and exciting services through 100 billion devices and things, by 2030



HOW

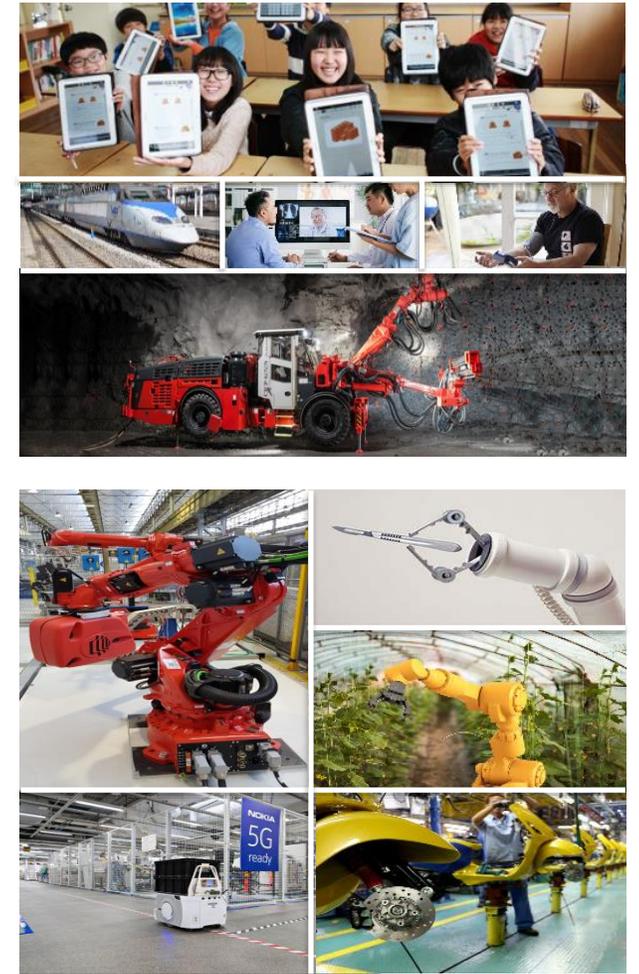
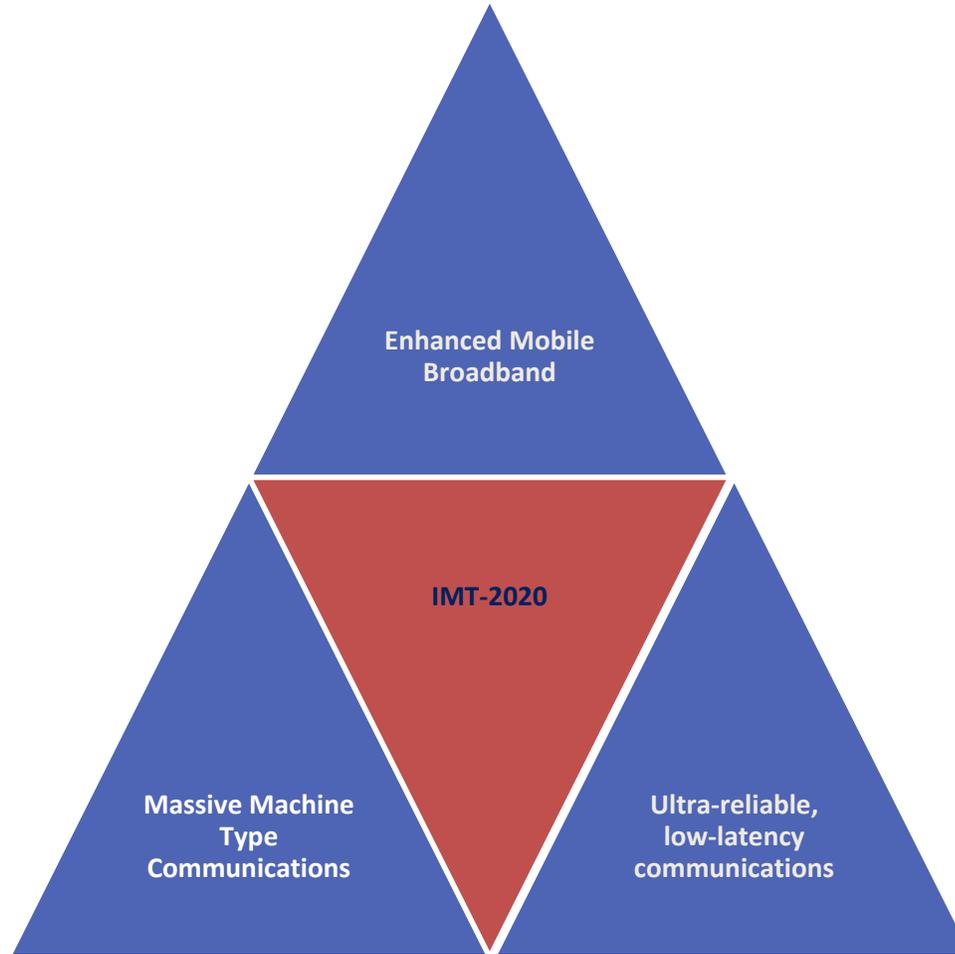
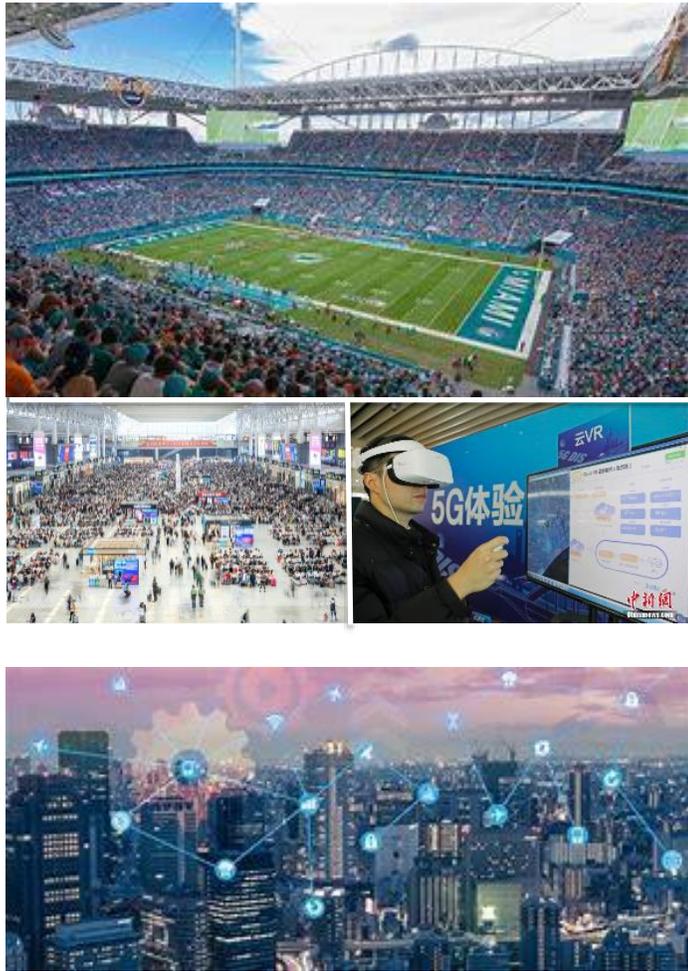
spectrum from the low-band, mid-band and high-band frequency ranges helps realise the Vision



WRC-19 GOAL

large contiguous amounts of high band (mmWave) harmonised spectrum, with suitable regulatory conditions, helps enable extreme capacity and ultra fast local area services. planning for the future with WRC-23 mid & low band agenda item

USE CASES



STANDARDS



Release 15 complete (2017-2019)

Release 16 development (2018-2020)

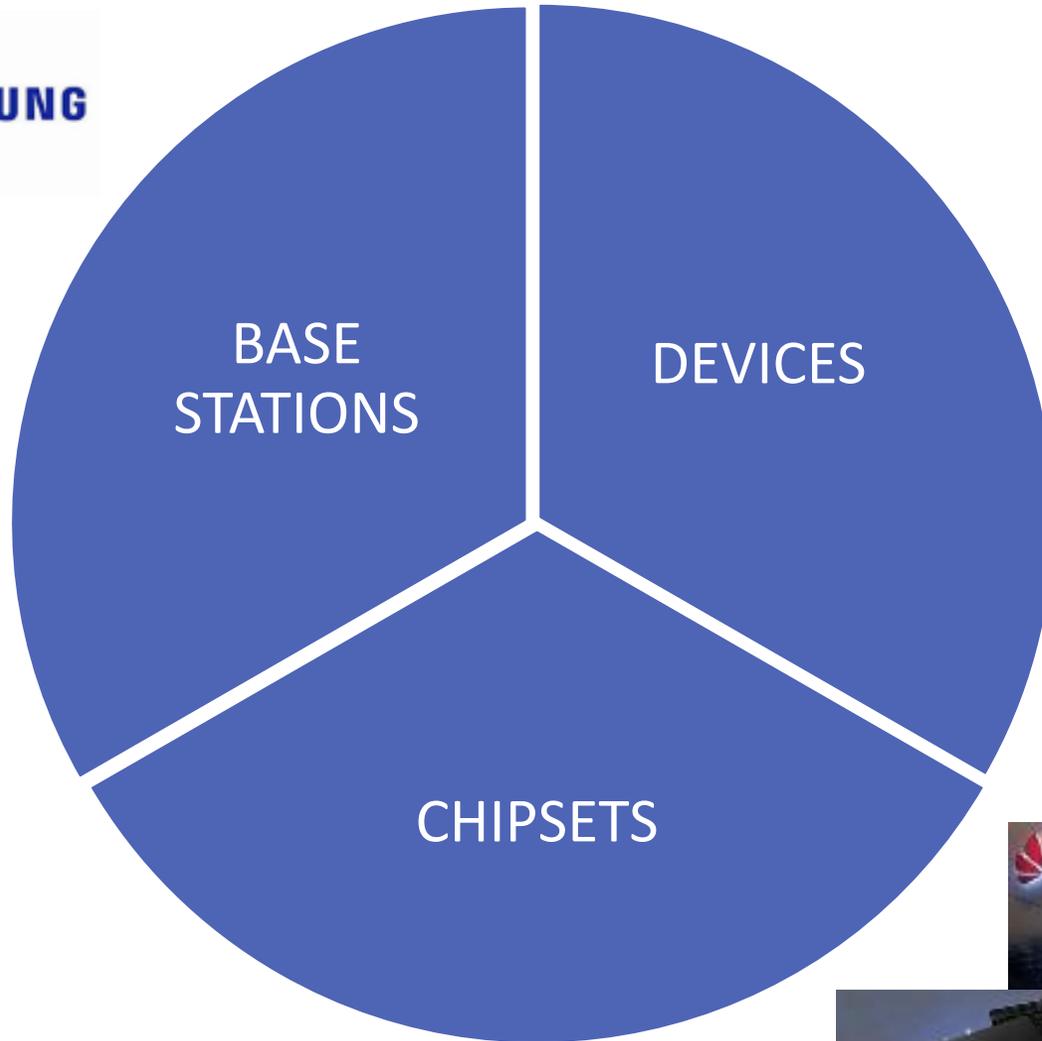
Enhancements, Unlicensed, URLLC+ & IoT+, V2X, etc

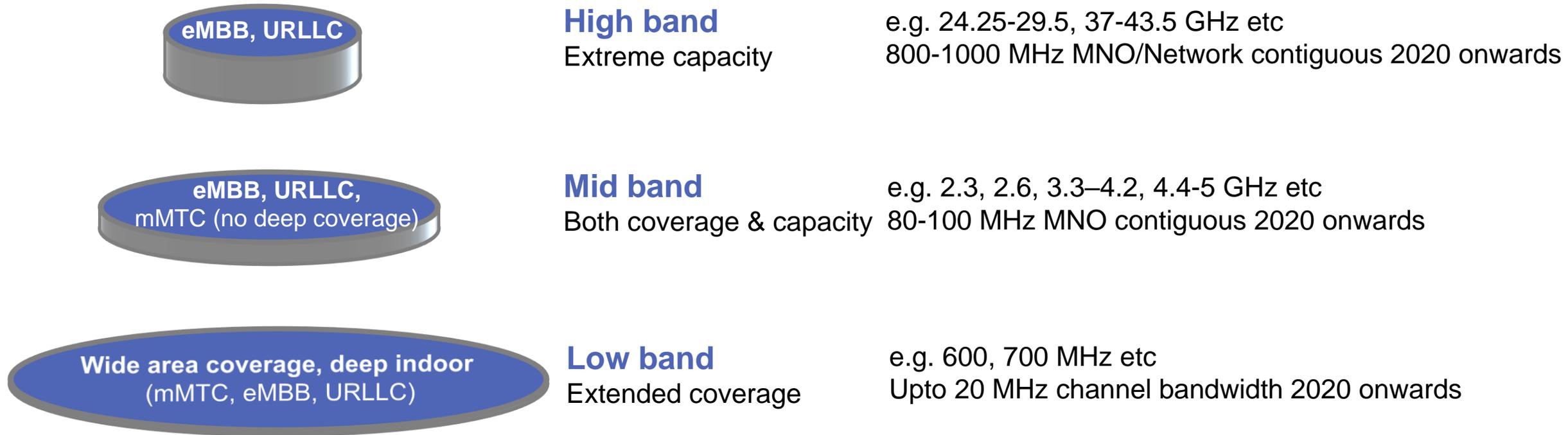
Release 17 planning (2019-2021)

Enhancements to support verticals, coverage improvements, NTN, etc

3GPP 5G specs complete – work underway on enhancements

PRODUCTS





Various applications and services require access to spectrum from low, mid and high bands

The Road to 5G with GSA

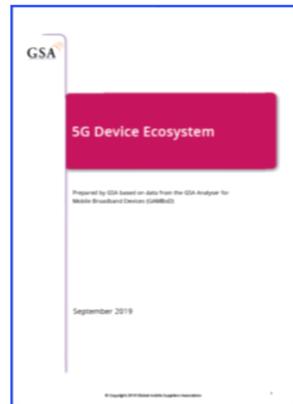
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THANK YOU

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5G ecosystem update



5G licensing update

