SPECTRUM

THE FUNDAMENTAL ELEMENT OF MOBILE

5G Ecosystem

Elizabeth Migwalla

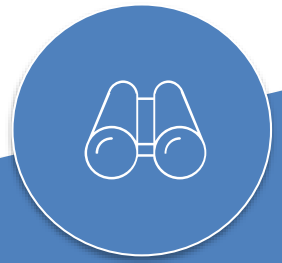
GSMA™

5G ECOSYSTEM UPDATE

Elizabeth Migwalla

GSA Africa

VISION



VISION

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

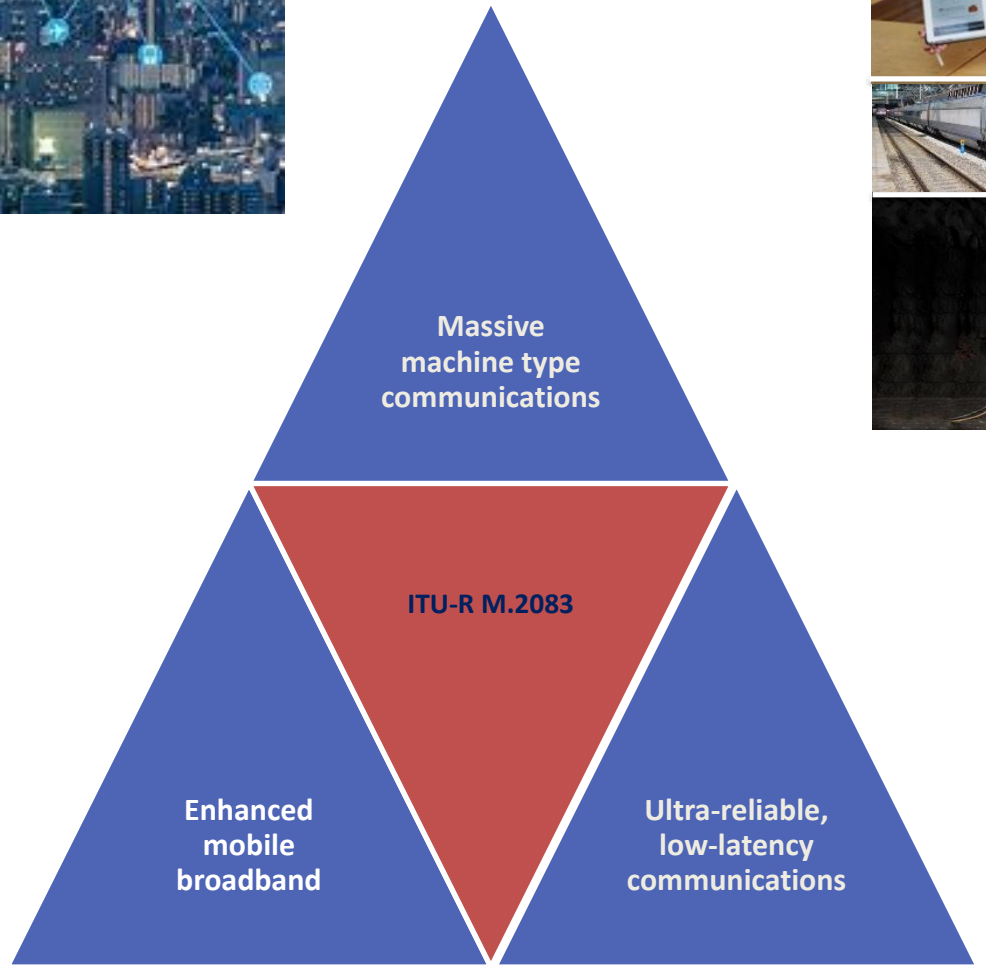
HOW

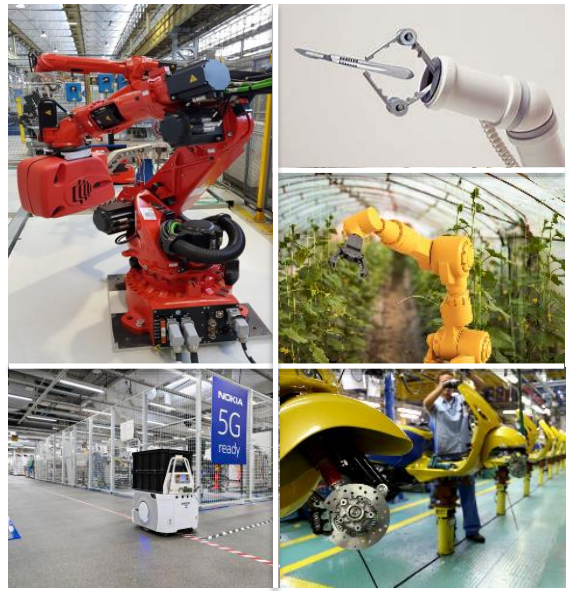
spectrum from the low-band, mid-band and high-band frequency ranges helps realise the Vision

GOAL

large contiguous amounts of high band (mmWave) harmonised spectrum, with suitable regulatory conditions, helps enable extreme capacity and ultra fast local area services

USE CASES





STANDARDS

Release 15 complete (2017-2019)

Release 16 development (2018-2020)

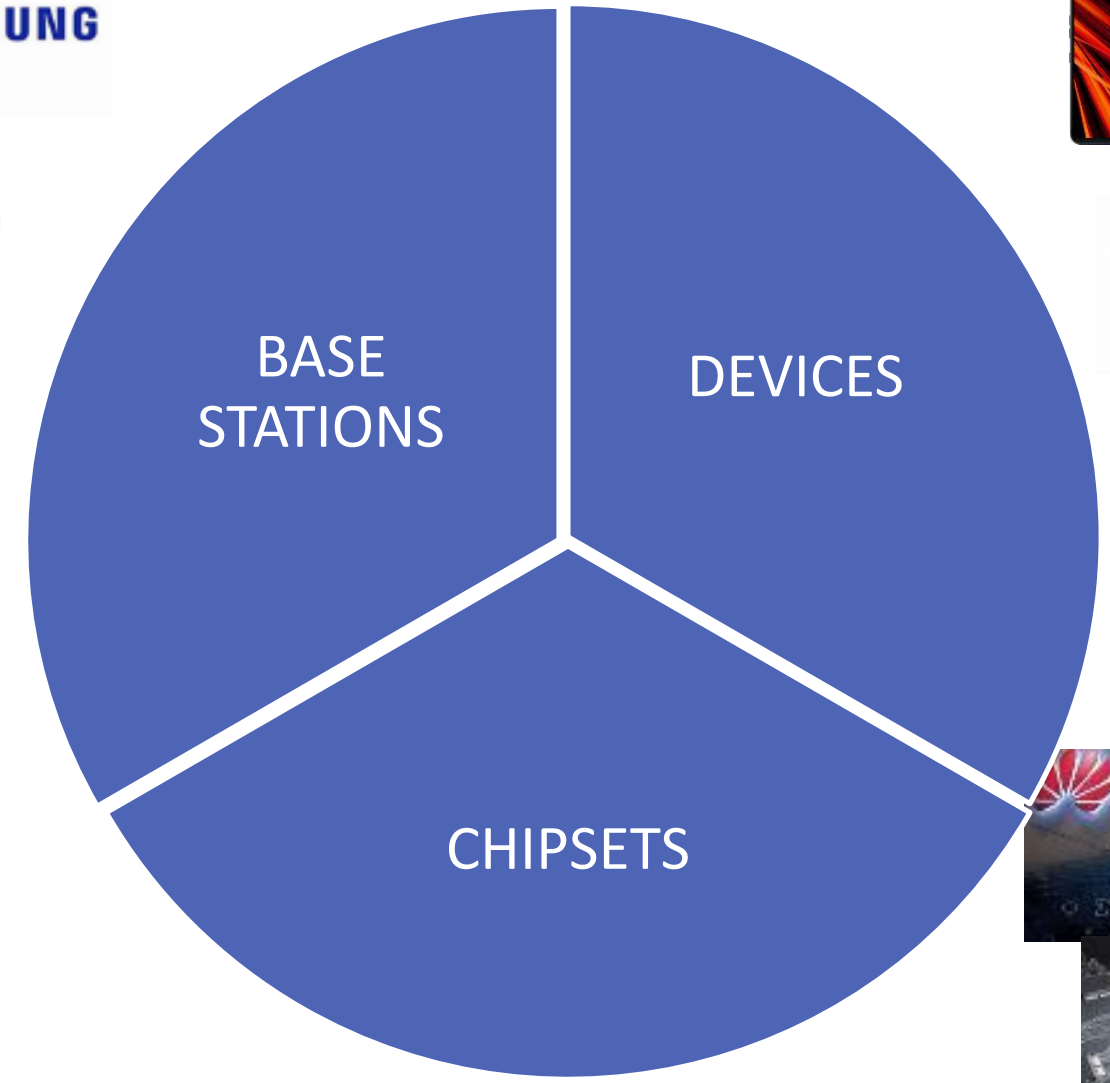
Enhancements, Unlicensed, URLLC+ & IoT+, V2X, etc

Release 17 planning (2019-2021)

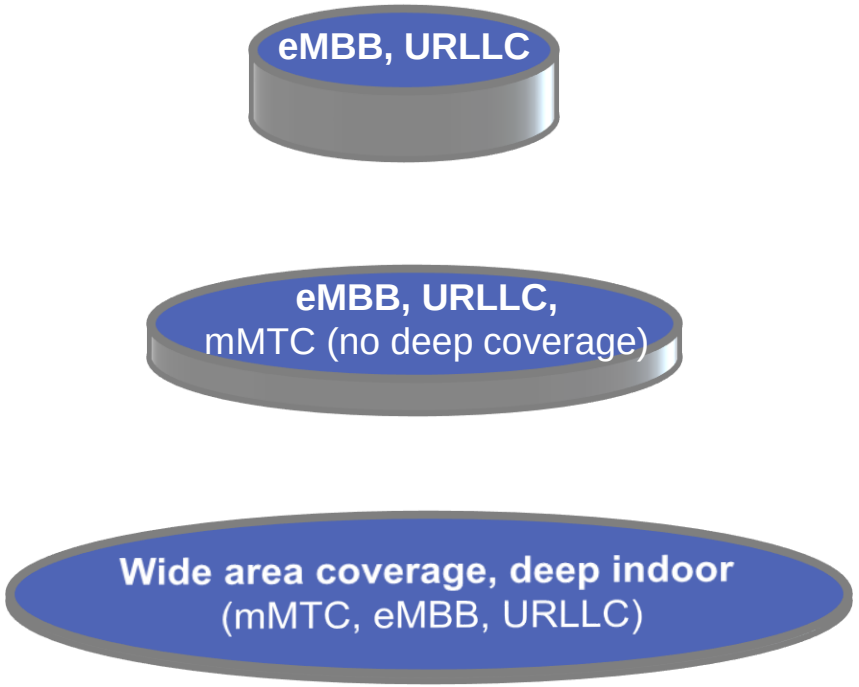
Enhancements to support verticals, coverage improvements, NTN, etc

3GPP 5G specs complete – work underway on enhancements

PRODUCTS



SPECTRUM



High band
Extreme capacity

e.g. 24.25-27.5, 37-43.5 GHz etc
800-1000 MHz MNO/Network contiguous 2020 onwards

Mid band
Both coverage & capacity

e.g. 2.3, 2.6, 3.3–4.2, 4.4-5 GHz etc
80-100 MHz MNO contiguous 2020 onwards

Low band
Extended coverage

e.g. 600, 700 MHz etc
Upto 20 MHz channel bandwidth 2020 onwards

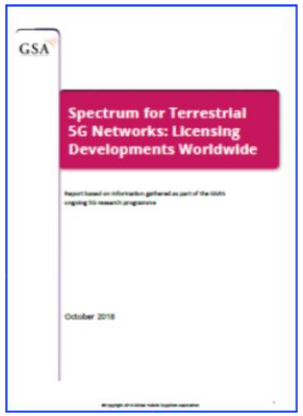
Various applications and services require access to spectrum from low, mid and high bands

THANKYOU

Check out www.gsacom.com for regular report updates

5G ecosystem update

5G licensing update



ERICSSON QUALCOMM HUAWEI NOKIA intel SAMSUNG