

Accelerating the Path to 5G with 3GPP-compliant 5G NR Trials

Wanshi Chen 3GPP RAN WG1 Vice Chair Qualcomm Technologies, Inc. May 2017



Accelerating 5G NR, the global standard for 5G



5G NR R15 will establish the 5G foundation

For enhanced mobile broadband and beyond

Optimized OFDMbased waveforms

With scalable numerology and TTI, plus optimized multiple access for different use cases A flexible, forward compatible framework

To efficiently multiplex services and features with a dynamic, low-latency TDD/FDD design

Advanced wireless technologies

Such as massive MIMO, robust mmWave, advanced channel coding, and device-centric mobility







Unified design across spectrum types and bands

For licensed and shared / unlicensed spectrum bands both below 6 GHz and above 6 GHz¹



Test, demonstrate and verify our innovative 5G designs to contribute to and drive standardization

Such as advanced channel coding, self-contained subframe, mobilizing mmWave, ... Over-the-air interoperability testing leveraging prototype systems and our leading global network experience Announced the world's first 5G NR multimode modems for premium smartphones in 2019

Bringing new capabilities and efficiency to sub-6 GHz Demonstrating advanced 5G NR technologies



Mobilizing 5G mmWave in real-world environments Demonstrating NLOS operation and robust mobility



Utilizing adaptive beamforming and beam tracking techniques

Outdoor vehicular mobility up to 30 mph with seamless handover

Leading the way on 5G NR trials to accelerate deployments Starting 2nd half of 2017 in collaboration with operators and infrastructure vendors



In collaboration with...



...and more to come

Thank you

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