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TECH TALK

PRIVATE 5G NETWORKS AND TESTING

Dec, 2020

SPEAKER: **ADNAN KHAN**
Senior Manager – Wireless and Wireline Market Development,
Anritsu

HOST: **HEMA KADIA**
CEO & Founder,
TeckNexus

TeckNexus
DIGITAL SERVICE PROVIDER ECOSYSTEM

TECH TALK

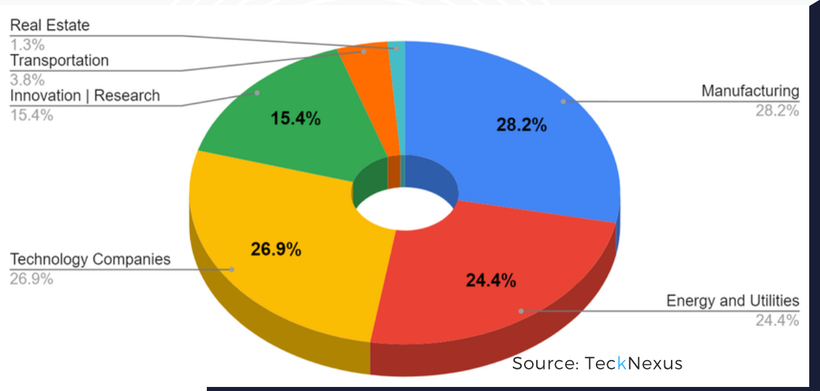
Navigating this Tech Talk

CONTENT COMPASS:

Top Industry Verticals

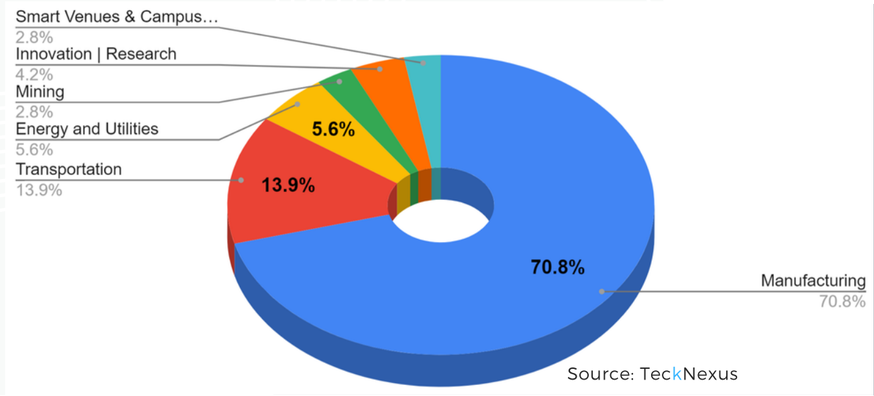
FOR PRIVATE

5G NETWORKS



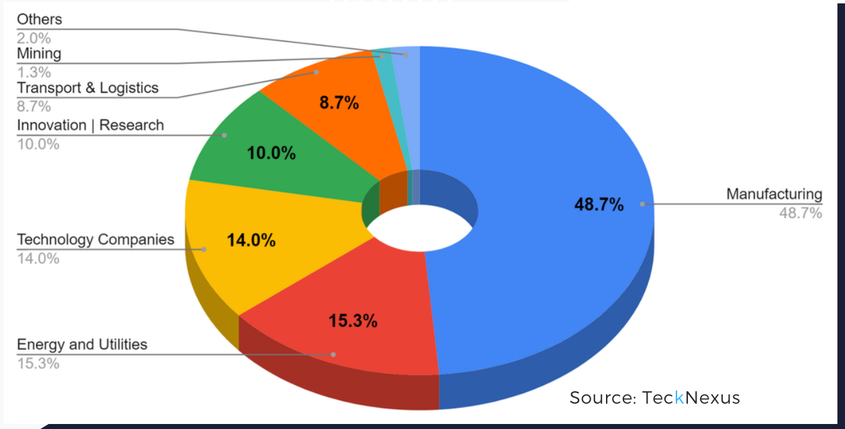
Manufacturing

Based on analysis of global private 5G enterprise use cases and spectrum winners



Transportation

Based on analysis of global private 5G enterprise use cases



Energy & Utilities

Based on analysis of global spectrum (mid-band & high-band) winners

3GPP Release Features

AND PRIVATE 5G INDUSTRY VERTICALS

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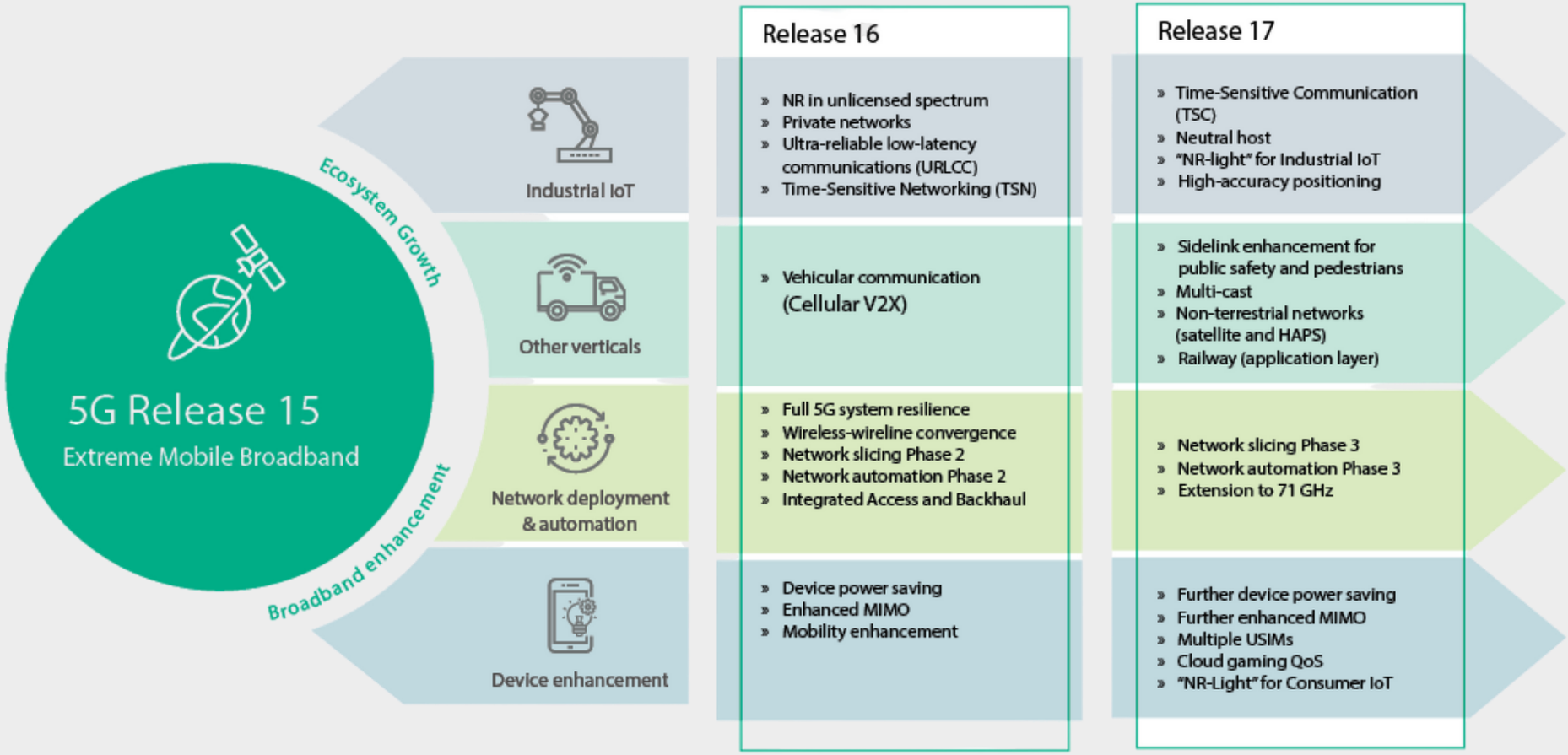


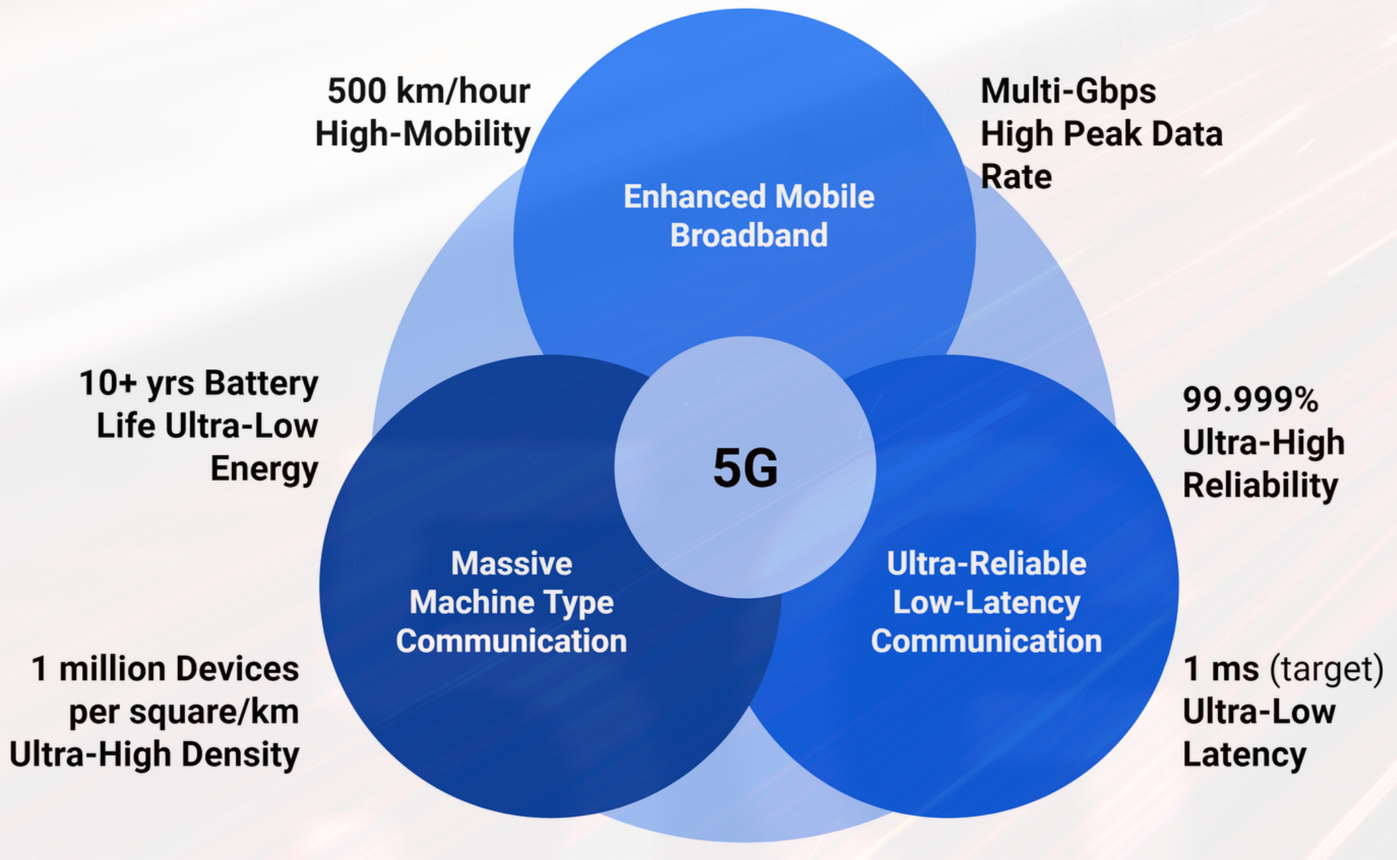
Private 5G Deployment Modes

Public 5G

Hybrid 5G

Private 5G

Public 5G



Network Slicing

For service differentiation and meeting SLAs

New Radio Unlicensed Spectrum (NR-U)

For improved coverage capacity and mobility

Multi-Access Edge Computing (MEC)

For high bandwidth and low-latency applications

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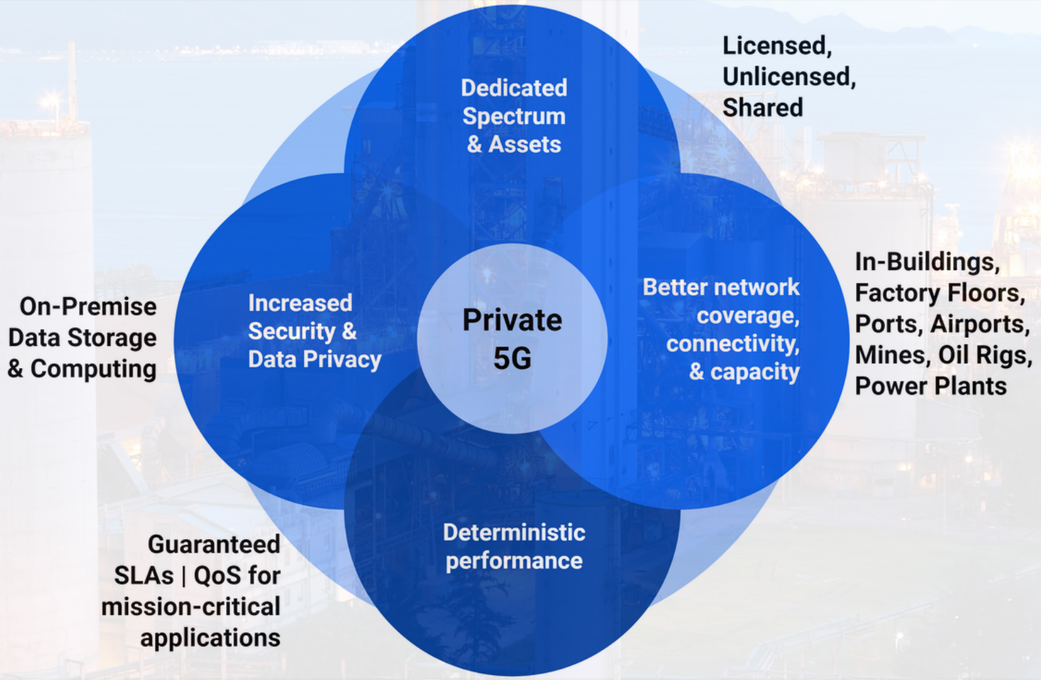
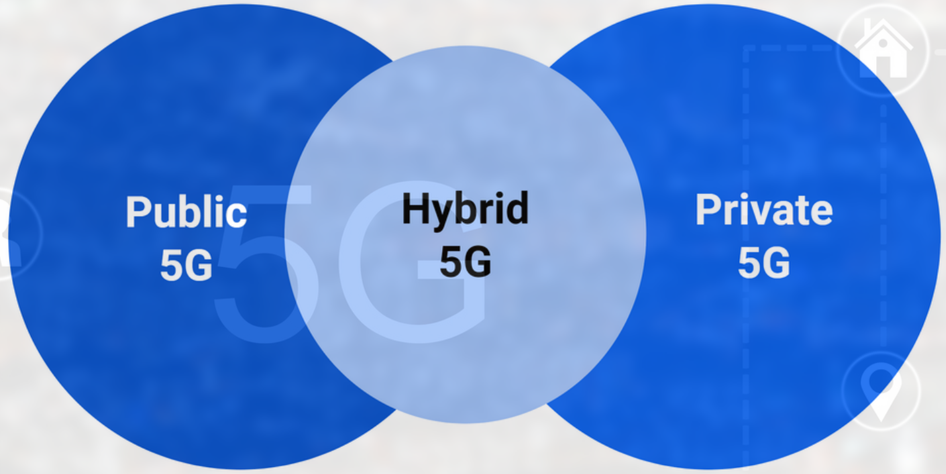
Private 5G



Hybrid 5G



Optimize overall investments and costs

Meet SLAs leveraging network slicing capabilities

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Testing Private 5G Networks

KEY CONSIDERATIONS

Spectrum	Verify support for multiple frequency bands (FR1/FR2)
Interference	Identify and eliminate any interference
Device Complexity	Verify support for sub-6GHz and mmWave
Radio Access	Test multiple radio access technologies, including 5G new radio (NR) and 4G LTE
Deployment Modes	Test different deployment modes, i.e., NSA and SA
Latency	Verify whether the latency requirements specified for eMBB and URLLC use cases are met
OTA Testing	Verify correct 5G transmission for near field and far field Over-the-Air (OTA)
Bandwidth	Test variable bandwidth and subcarrier spacing (SCS)
Power Class	Support testing for different power classes

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5G Testing Solutions

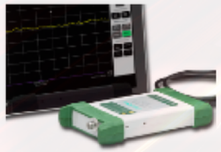
Components Transmitter | Chipset Device R&D | Certification Acceptance | Production

Vector Network Analyzer

Signal Analyzer

MS2850A

Spectrum Master



MS2760A

5G NR Device Protocol & RF Test

MT8000A

NSA-NR LTE Anchor

OTA Chamber/Shield Box

RF Conformance

ME7873NR

Protocol Conformance Carrier Acceptance

ME7834NR

Production Test (Sub-6GHz)

MT8870A

Production Test (mmWave)

MT8000A

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5G

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THANK YOU

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