Catalyzing 5G launch in India
This exponential demand can only be met through 5G.
Key enablers for 5G adoption

Network

Device

Digital India

Ecosystem
Broadband highways

e-governance

E-delivery of services

Public internet – information access to everyone

Digital manufacturing

Digital India

• Extreme capacity - Tbps / cluster
• Ultra speeds - 100Mbps+ user experience
• Ultra density - millions of connection
• Deep coverage
• Ultra low latency - 1 to 2msec
Network – Maximum Reuse of legacy Assets

- Band-40 for 5G-NR
- 5G Compatibility of BBU, radios
- vRAN with non-ideal fronthaul
- Relay solution – integrated access & backhaul

VoNR as native service with single profile across devices & operators

- NSA (Option-3x) for reuse of EPC
- HPUE for Band-40
- Dual Sim – 95% of smartphones in India are Dual SIM
  - standards for all three modes – DSDS, DSDV, DSDA
- USIM for 5G authentication
- UE capability QoE reporting
NB-IoT to be forward compatible with 5G, No changes in NR based solution
Our Journey to 5G has started
Smart water meter

Smart street-light

Smart parking

IOT Use cases Implemented
India’s first Massive MIMO in live network..

Trials done, commercial deployment started

India’s first 5G Trials
Dual connectivity - DL@3.5GHz + UL@1800MHz

Enhanced coverage

1800MHz Coverage
3.5GHz UL Coverage
3.5GHz DL Coverage
1800MHz UL Coverage

Use cases under trial

Non-Standalone (NSA) – Option 3x

S1
EPC+

- LTE
- 5G NR
- Control plane
- User plane

Enhanced coverage
Thanks