Tech Mahindra

NETWORK OF FUTURE

By Manish Singh

DATA REMAINS
THE GROWTH ENGINE

47%
CAGR
2016 – 2021
Traffic

2.1%
CAGR
2016 – 2021
Revenue

NEW DEMANDS

- Elasticity
- Throughput
- Agility
- Capacity
- Coverage
- Latency
- Discoverable

NEW ACCESS

5G | vRAN | mmmWave | Cloud WiFi | FTTx | G.Fast

NEW ARCHITECTURE

Virtualization | Disaggregation | Software Defined | Edge Computing | Distributed Telco Cloud | Network Slicing

HYPER AUTOMATION

Orchestration | NetDevOps | Cognitive Networks | Closed Loop Control | Predictive Analytics |
AI, ML, RPA

3 Mega Trends

Explosion Of Connected Devices

5G
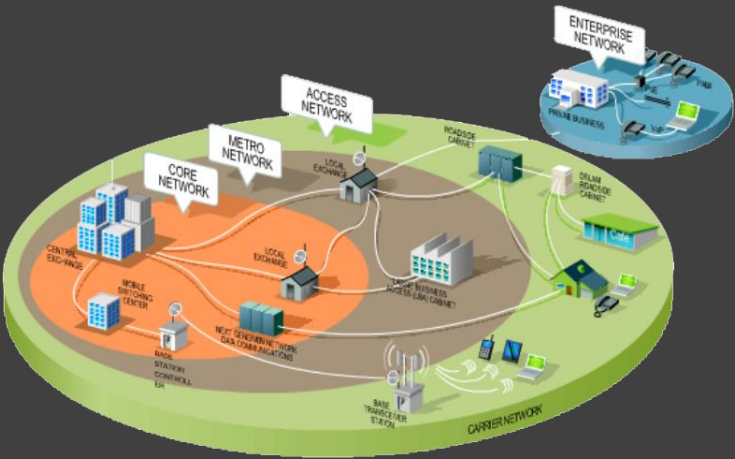
Surge In Video Consumption

4 Big Bets

| ACCESS | CORE | OSS | ENTERPRISE |

PLATFORMS

SERVICES

3 Outcomes

Run Better

Change Faster

Grow Greater

ENABLING NETWORK TRANSFORMATION JOURNEYS

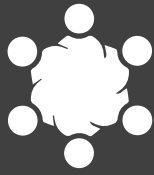| From	To	Outcomes
Discrete Appliance Centric Networks	Virtualized & Software Defined	Agile, Programmable, Elastic
Limited Incumbent Vendors	Vibrant & Diverse Disruptors	Accelerate Innovation
Limited Service Set	Diverse Digital Services	Monetize new verticals & IoT
Closed Management Systems	NaaS with Open APIs	Self service, On-Demand
Limited Business Models	Multiple Business Models	Consumption Based Models

"In 2015, 2016, we've actually put in **2.5x (250%) the capacity at 75% of the cost**"
Andre Feutsch, President AT&T Labs & CTO

"In 2035, 5G will enable **$12.3 Trillion** of global economic output"
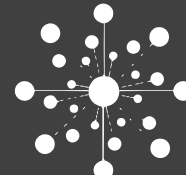IHS Economis & IHS Technology,
The 5G Economy

Collaborating with Industry Bodies

Partner Ecosystem

Consulting

Managed Transformation

VNF-Xchange

Platforms

COLLABORATING WITH INDUSTRY BODIES

Open vRAN | Founding Member

TELECOM INFRA PROJECT
EARLY ADOPTER AND CONTRIBUTOR

tmforum

Joint Agile Delivery

NetDevOps

CHAMPIONS
orange AT&T
TIM

Multiple Award Winning Catalysts

ONAP OPEN NETWORK AUTOMATION PLATFORM

Platinum Founding Member
Top 10 Contributors

New!
Closed Loop Assurance for 5G Network Slices

PARTNERS

PLATFORMS

PEOPLE

ALTIOSTAR
affirmed®
cellwize
Driving value through SON
intel
Cloudify
DELL
MOJO Networks
Metaswitch Networks
NetNumber
ORACLE®
redhat
VERSA NETWORKS
RIFT.io
vmware®

VNF-Xchange

Virtualize:
50% CapEx &
OpEx Savings

ONAP

Agile:
Accelerate New
Service TTM from
12 months to 2
months

TRUe

Cognitive: AI/ML
Reduce L1/L2
support by 30%

Skill Transformation

2018 Goal: Re-skill 50%
network engineers

10% engaged on new
network technologies

CONSULTING

Scandinavian Telco: Network Transformation Strategy

Indonesian Operator: OSS Transformation Roadmap

Mexican Operator: VoLTE Choice

M.East Telco: Network Maturity Model

Mexican Operator: Mexico Network Transformation

VALIDATION

US Telco: Onboarding 40+ VNFs

US Telco: VNF Performance Benchmarking

EU & LATAM Operator: VNF Onboarding & Test Automation

Multiple Operators: ONAP for service design & automation

INTEGRATION

Indonesian Operator: SMSC Virtualization

Caribbean Operator: vEPC Solution

EU Operator: Telco Cloud Rollout

EU & LATAM Operator: MVNE for IOT

European Operator: NFVI solution
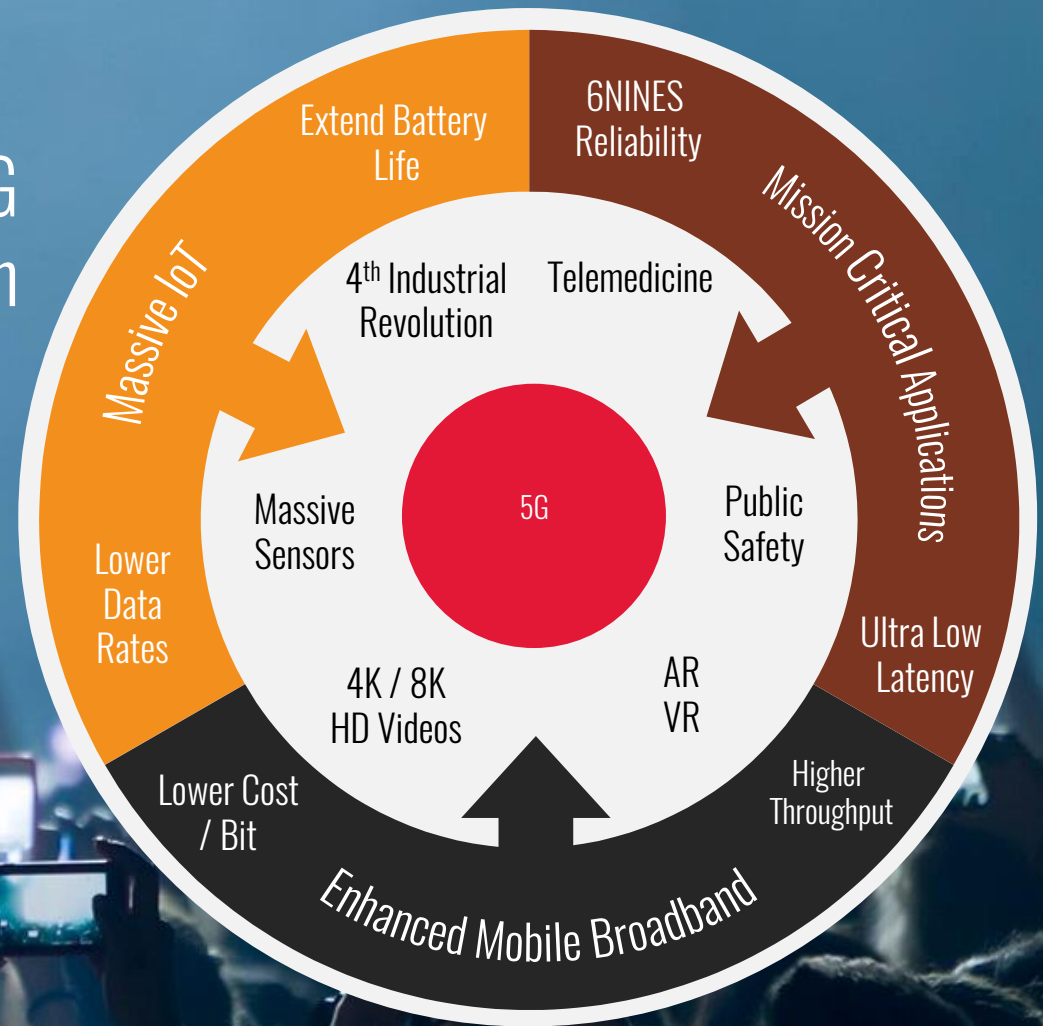
Canadian Telco: vCPE Solution

OPERATIONS

US Telco: ONAP

5G

ONE NETWORK, DIVERGING NEEDS

Tech Mahindra's 5G CoE in collaboration with Intel

Extend Battery Life

6NINES Reliability

Massive IoT

Mission Critical Applications

4th Industrial Revolution

Telemedicine

Lower Data Rates

Massive Sensors

5G

Public Safety

Ultra Low Latency

4K / 8K HD Videos

AR VR

Lower Cost / Bit

Higher Throughput

Enhanced Mobile Broadband

MILTON
KEYNES
AUTONOMOUS
PODS TRIAL
ON 5G
NETWORK