

FTTx: Fibre to the eXponential

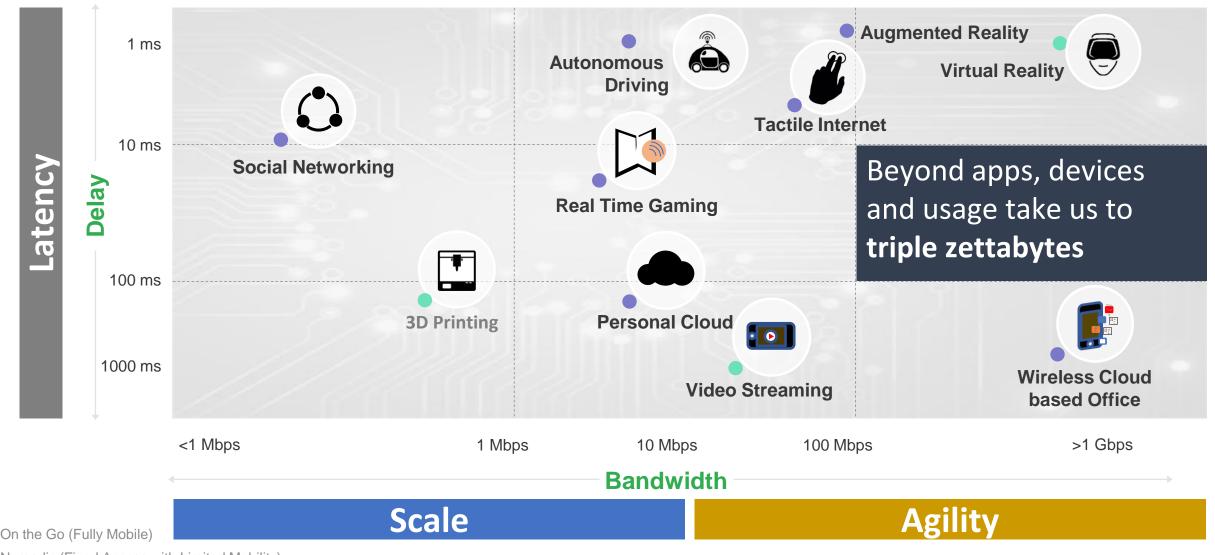
Strategic Direction and Implementation of Broadband Infrastructure

www.sterlitetech.com

KS RAO CEO – Telecom Services Business Sterlite Tech

An expanded ecosystem of apps requires hyperscale network

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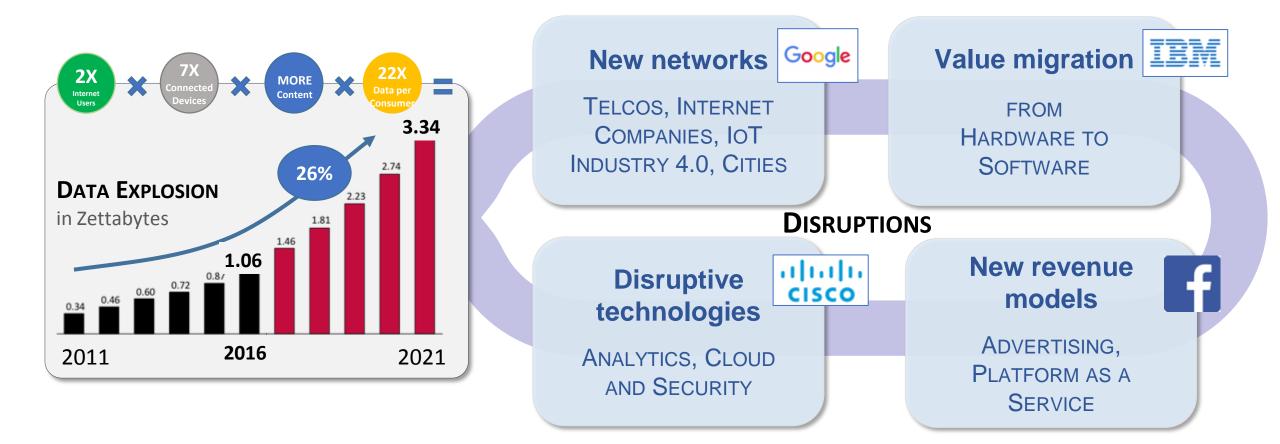


Nomadic (Fixed Access with Limited Mobility)

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Industry wide disruptions to meet the hyperscale demands





But current network design and topology is constrained

Source: Ericsson, BCG, Cisco reports Copyright © 2018 Sterlite Tech.

Future network will be virtualized and fibre dominant @SterliteTech

<u>Today's Network</u> Complex and expensive

Proprietary software

Customised and dedicated hardware

Wireless dominant

Future Network *Flexible and agile*

Vendor neutral & software driven

Commoditised and virtualised hardware

Fibre dominant

Industry Govt. collaboration on Ease of Business

Process Simplification Stringent Compliance Technology Support

Accelerated readiness of Hyperscale Network and faster implementation of NDCP

Govt recognizes need with the NDCP framework





Connect India

- 50 Mbps citizen coverage,
- fixed line BB access to 50% households
- 10M Wi-Fi hotspots
- National broadband mission -BharatNet, GramNet, NagarNet, Jan Wifi
- Fibre first initiative, National Digital Grid, BB Readiness Index



Propel India

- BB Infra essential status
- License reforms and ease of business
- Expanding local manufacturing and R&D for innovation

Secure India

- Assuring security framework to infrastructure
- Provisions for physical and cyber security

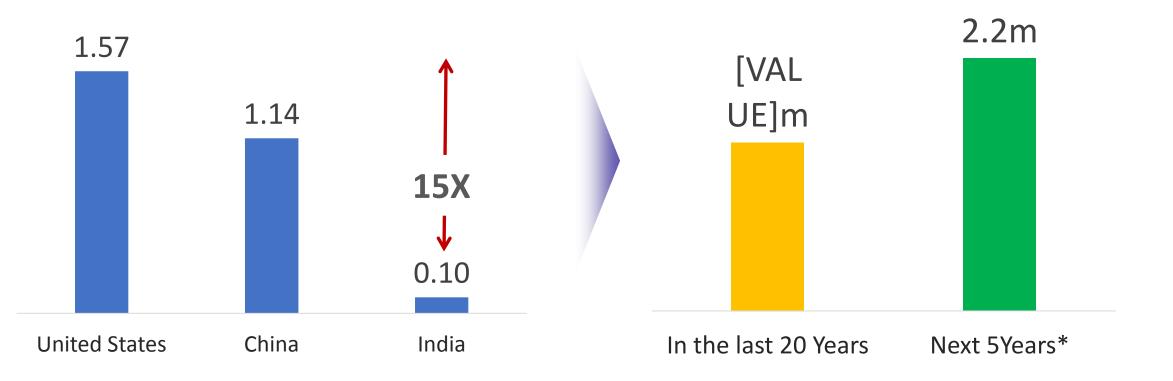
Establishing BB Infra essential Status and Fibre a Public Utility

Deep fiberization is the natural next step



Fibre consumption (fkm) per capita

In next **5 years** India must deploy **2.2 million km** at **~5X speed**



But India offers some unique challenges





Shallow trenches ½ meter?

Rock conditions

Poor trench bed preparation

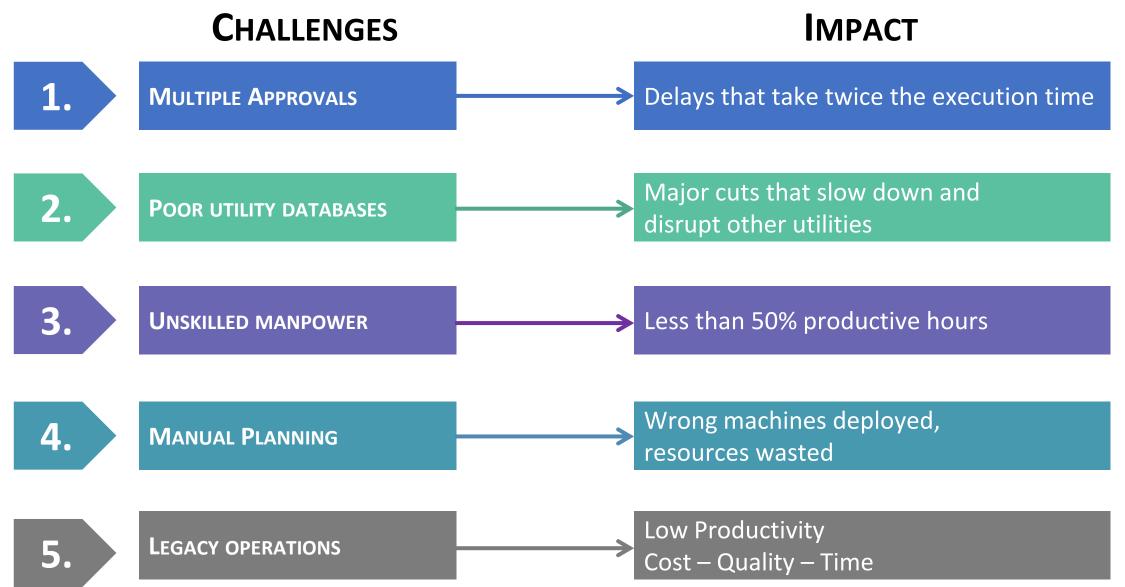
Open manholes





Deployment Challenges impacting cost and timelines

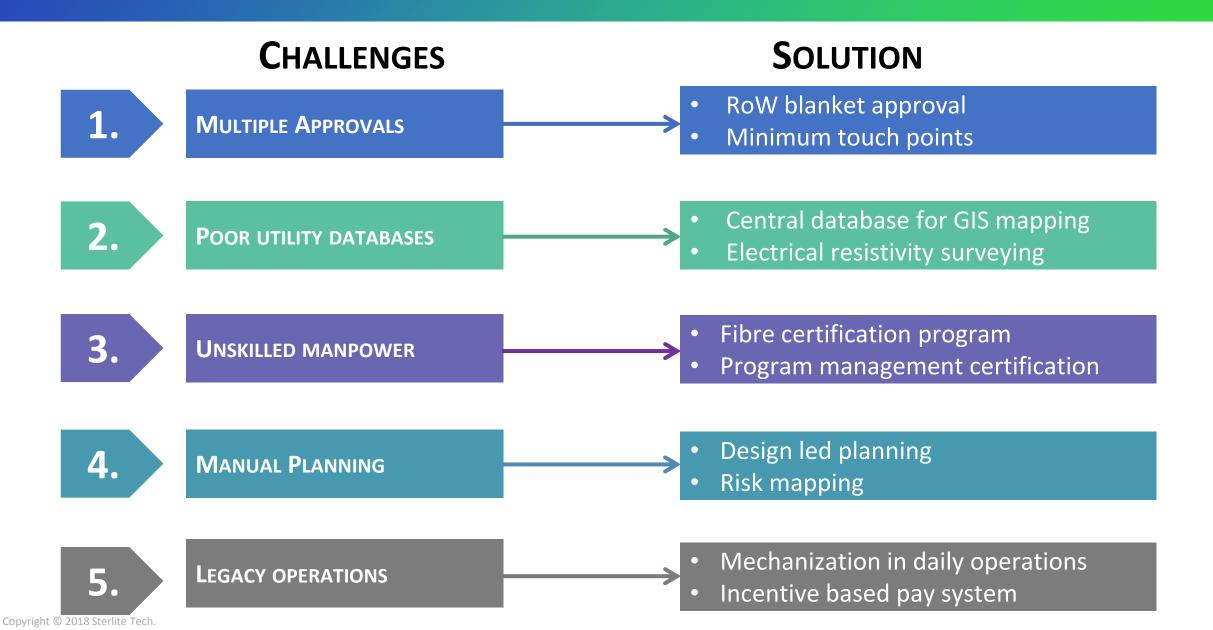




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Solution to deployment challenges





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Recommendations and design framework for implementation of hyperscale networks



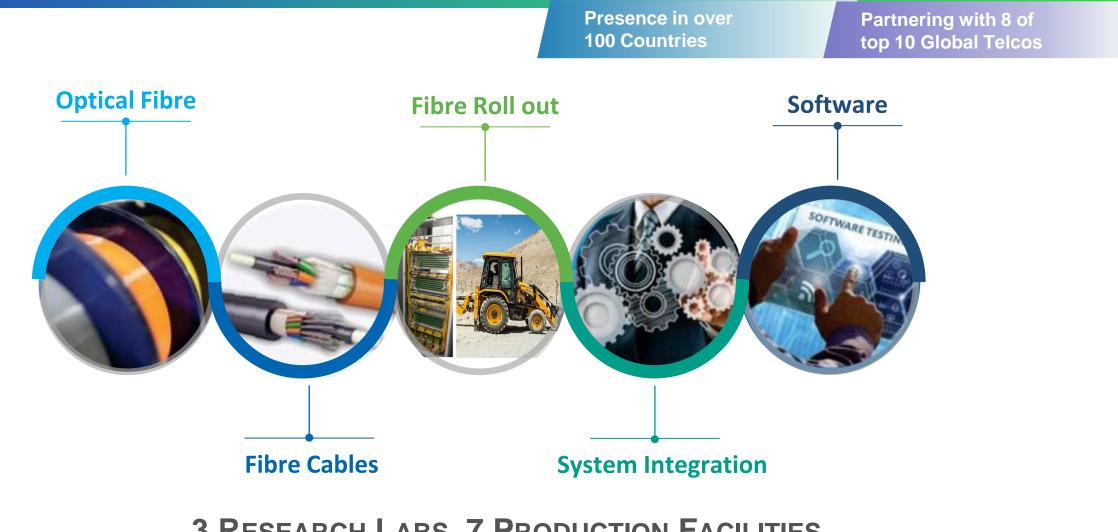
DESIGN FRAMEWORK

RECOMMENDATIONS

- Fibre deployment synergies with other utilities
- BB infra expert as part of city planning
- Building codes must include fibre
- RFP reforms in large scale Govt. deployment

Our capabilities across value chain





3 RESEARCH LABS, **7** PRODUCTION FACILITIES

Sterlite Tech : Designing, Building and Managing Smarter Networks



Thank You