

# 2<sup>nd</sup> Broadband India Summit, 2024

“Connecting the Unconnected”



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# Key Constituents of Broadband Infrastructure

*ITU View of Digital Infrastructure Includes*

**Internet backbone-National and Under-Sea fibre cable**

**Fixed broadband -Coaxial and OFC**

**Mobile infra including towers, radio and OFC**

**Broadband communications satellites**

**Data & Cloud computing**

**UE - mobile HS, PCs, modems & Wi-Fi NWs**

**SW platforms, OS, APIs**

**Network edge devices**

**Multiple Technologies Required to Build a Robust Digital Infrastructure**

# Where are we today?

## A global Comparison

### Mobile Penetration

<b>India</b>	<b>83.0%</b>
USA	110%
Europe	123%
China	124%

**Global Av. 111%**

**India about 75% of global avg.**

### FBB Tele Density

<b>India</b>	<b>2.95%</b>
USA	37.64%
Europe	34%
China	45.0%

**Global Av. 18.4%**

**India only about 16% of global avg.**

**Essential for Consistent, Reliable & High-Quality Broadband**

### Satcom Subscribers

<b>India</b>	<b>0.25mn</b>
China	3mn
Europe	7mn
USA	16mn

**India's important Bridge over Digital Divide**

**\* India only 0.252mn now as per TRAI**

### Public Wi-Fi NwS

<b>India</b>	<b>0.5mn</b>
China	41.7mn
Europe	5.0mn
USA	7.5mn

**Solution for affordable internet to rural and urban poor**

### Net Unconnected

<b>India</b>	<b>47.6%</b>
China	23.6%
Europe	9%
Americas	13%

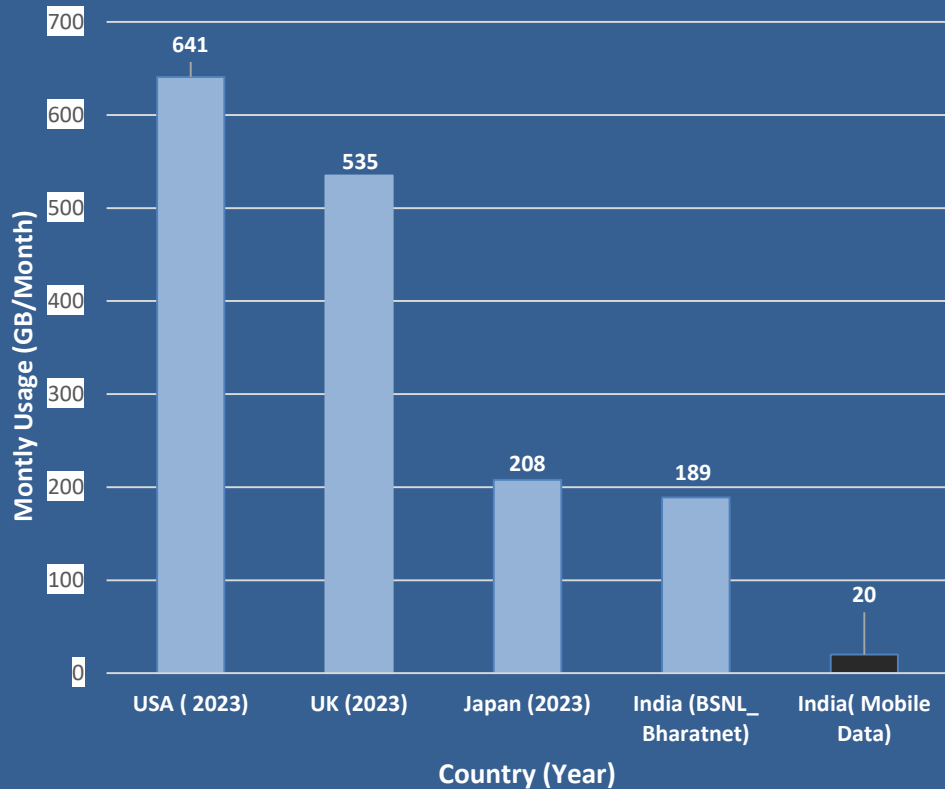
**Global Av. 32.3%**

**India has Opportunity of Rs 354 Bn per annum**

## India Offers Big Potential in Many Verticals

## FBB an Important Driver

FBB Monthly Data Usage- Global Trends Data  
Usage ( GB/Month)



### 1. FBB – World’s data carrier

As per ITU 2023, 83% of global data traffic carried by FBB. On an average, FBB provides 4-6 times speed compared to mobile/wireless data

### 2. FBB Data Exploding to grow 20x–30x

India Fixed line consumption is growing rapidly. Fixed line data consumption is 10X of mobile in India (preliminary finding); It is 20X-30X in reference countries

### 3. Mobile data in India to also grow 3x

Mobile Data Consumption to increase to 62GB/month from 20GB/month at present by 2028

**India will also grow data demand several fold by 2030**

# The Holistic Picture of Internet Infra

## A Calibrated Play of All Technologies

**Remote & Less Accessible      Rural      Suburban      Urban**

**Population**

**Teledensity**

**Gap in Broadband  
Public WiFi & OFC needed**

**Fixed Broadband on  
Fiber**

**Mobile Broadband**

**Satcom**

*Colour intensity in the arrows denotes the intensity of the parameter*

**SPEED & CAPACITY**

**LOW LATENCY**

# THANK YOU For Your Patient Hearing

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