



**5th FTTH India Summit
2022
4th May 2022**

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Why is FTTH Required

OTT video grows further

New services and geographical expansion
OTT revenue increases exponentially



NETFLIX



Cloud gaming boost

New services launched + expand
existing footprint >20M users
worldwide



5G no game changer “yet”

Coverage limited
First applications: FWA & Enhanced BB



Video calling rivals voice

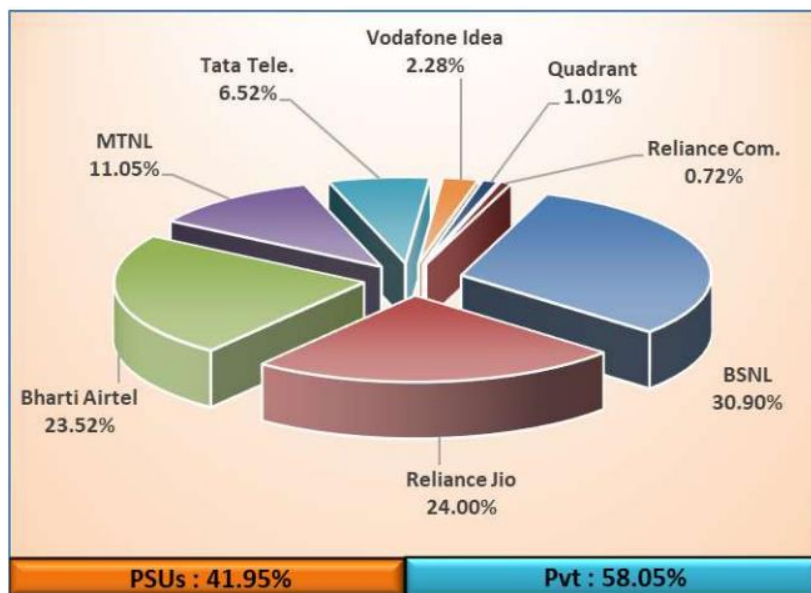
Social & communication apps with video
experience win



What is the Problem

THE ECONOMIC TIMES | tech

English Edition | E-Paper



Source: Wireline subs data, TRAI Feb'22 subscription Data report

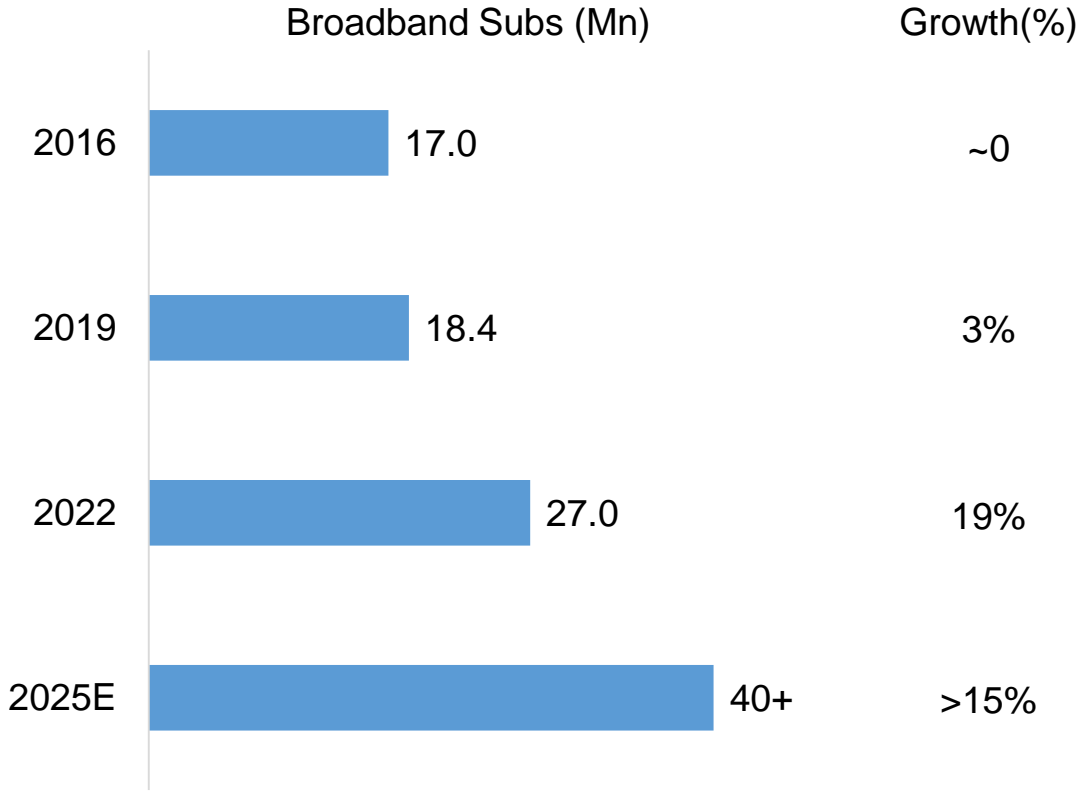
Broadband penetration in India's rural areas continues to be poor at 29.1% against national average of 51% with 687 million subscribers as of March 2020, according to a report by Deloitte.

Although broadband penetration in India has grown at an annual rate of 35% over the past three years, rural India's broadband subscribers per 100 population increased from 12% in March 2018 to 29.1% in March 2020, the consultancy firm said in a new report titled 'Broadband for inclusive development—social, economic, and business.'

Meanwhile, fixed broadband penetration in India is abysmally low at only 7.5% of our households.

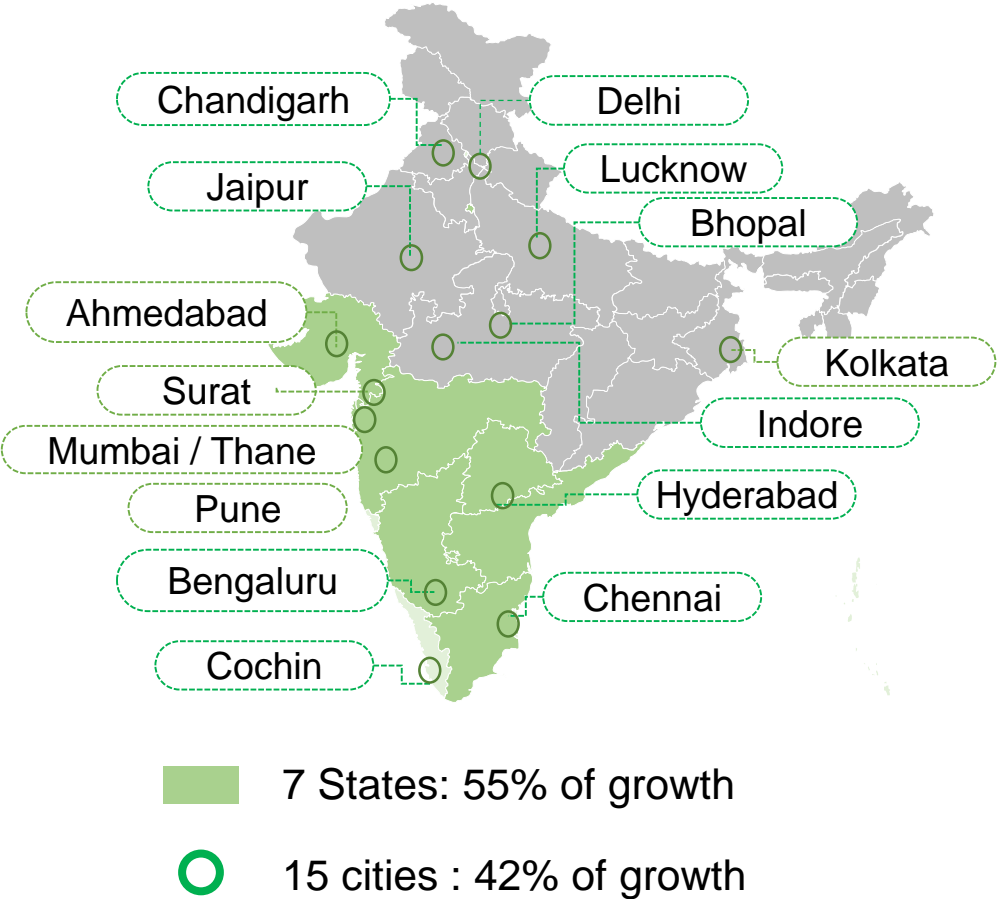
We need to rollout the fibre (FTTH) in Rapid way

Broadband market is on path to 40 Mn subs by 2025



~300 Mn HH in India ,210 Mn in Rural & 90 Mn in Urban

<https://censusindia.gov.in/>



Challenges & Possible Solutions for Rapid roll-out of Fiber

Cost for "Right of Way" Rollout

Multiple authorities & Complex Process for ROW
Permission

Inadequate & Skilled resource availability (Manpower &
Material)

Local Challenges – RWAs etc.



Timely & Free "Right of way" Permission for
Infrastructure Development projects.& Single
Window

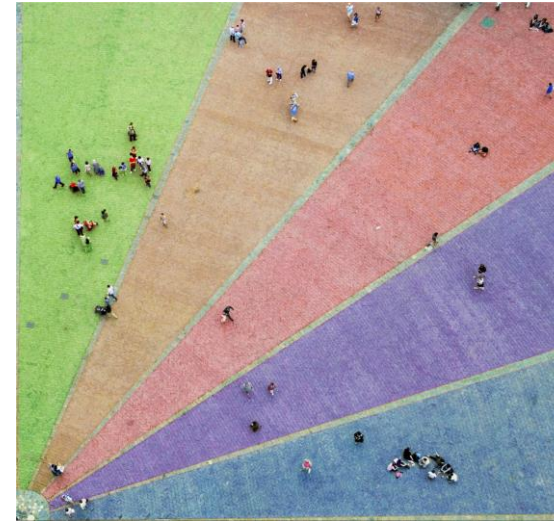
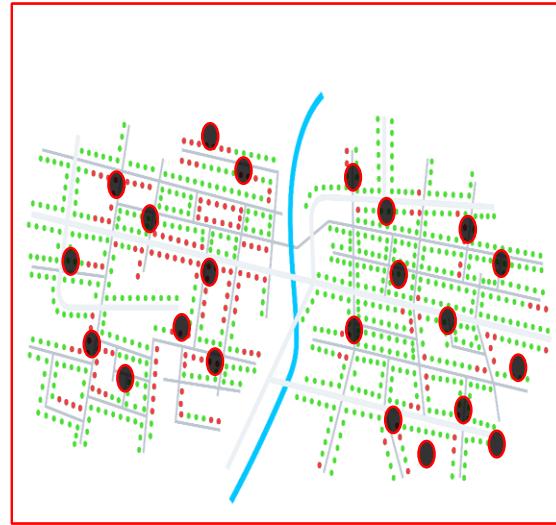
Program for Fibre splicing Under Skill India
mission

Make fiber presence mandatory for RWAs

Use FTTH for 5G

Slash the cost and time to market

No need to build dedicated transport network reduces transport TCO



Scale transport with 5G growth

Easy to introduce new cells and increase the network capacity

Fastest operations

Built for plug-and-play, easy provisioning and fast service turn up



Public



Zero footprint at cell site

No additional equipment on-site. Small form factor SFP ONU is directly plugged in the small cell

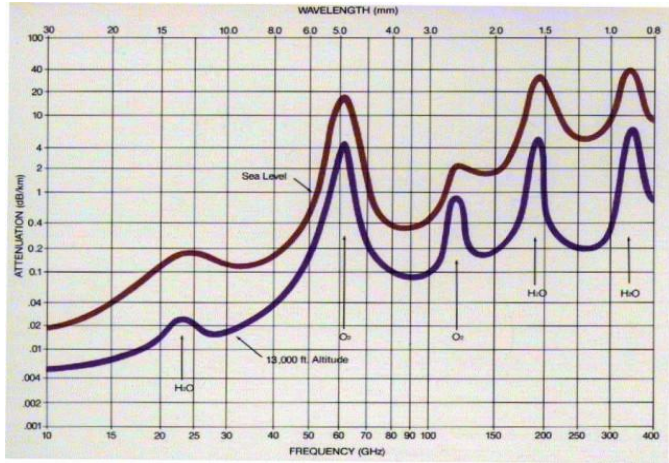
Role of Complementary Technologies

FSOC- Free Space Optic
Experimental basis



WiFi 6 & 6 E
In Home coverage

Satellite Broadband
Very expensive



E Band and V Band
Needs line of sight