

1st India ISP conclave 11.06.2023

What will we cover







What are we doing differently

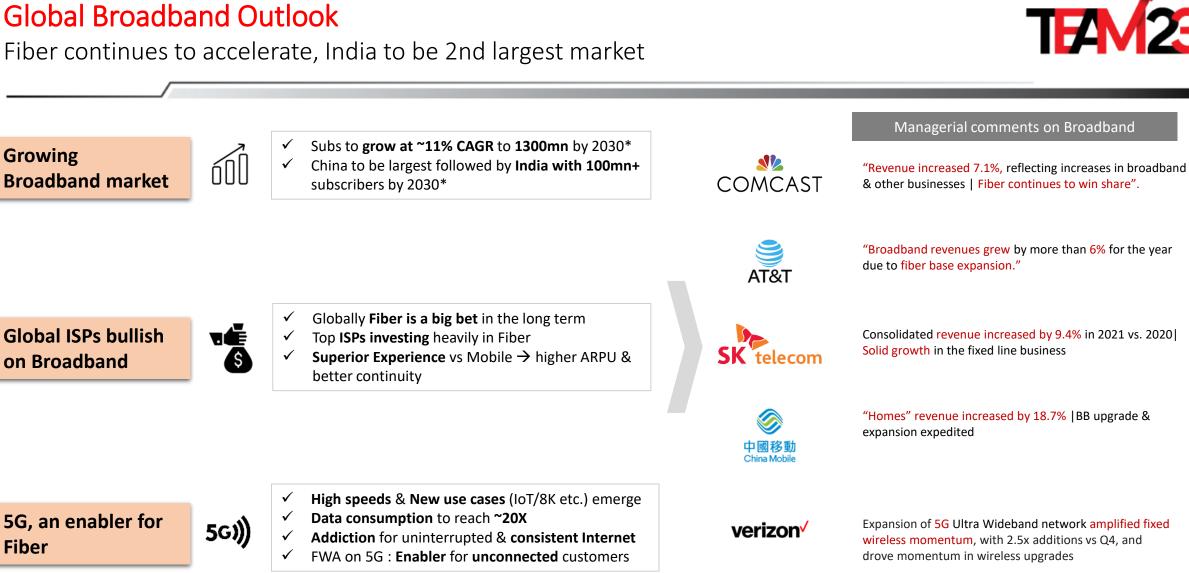


Building Big Pillars of Data Business

- Submarine Cables
- Data Centre

Global Broadband Outlook

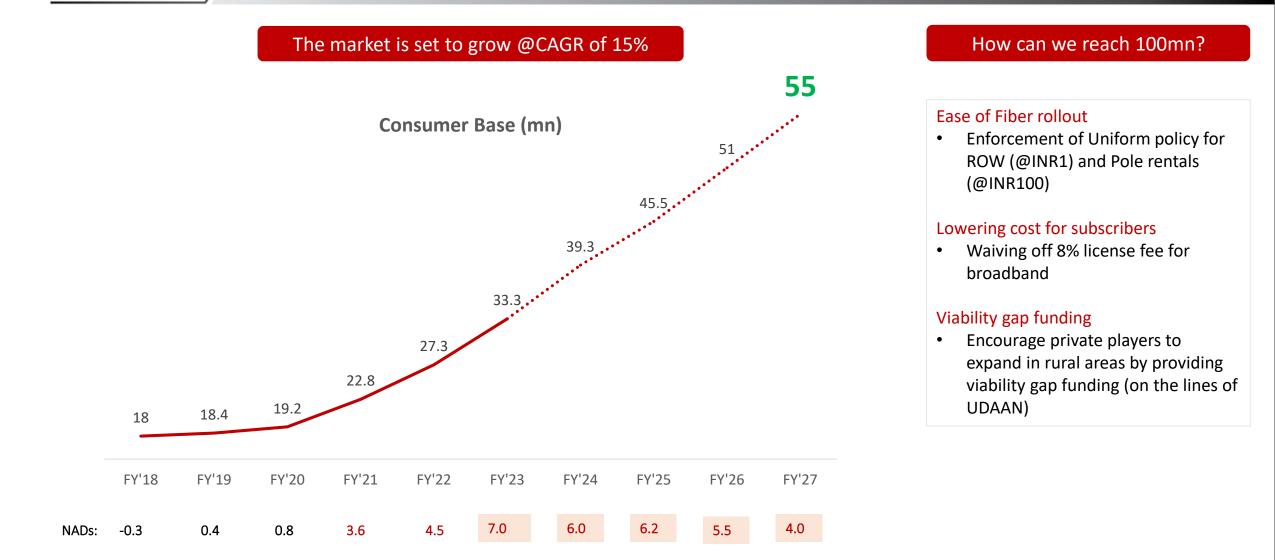
Fiber



5G to complement Broadband → Fiber & FWA for Home & 5G for outdoors

*Source: Point topic & FWA subs included

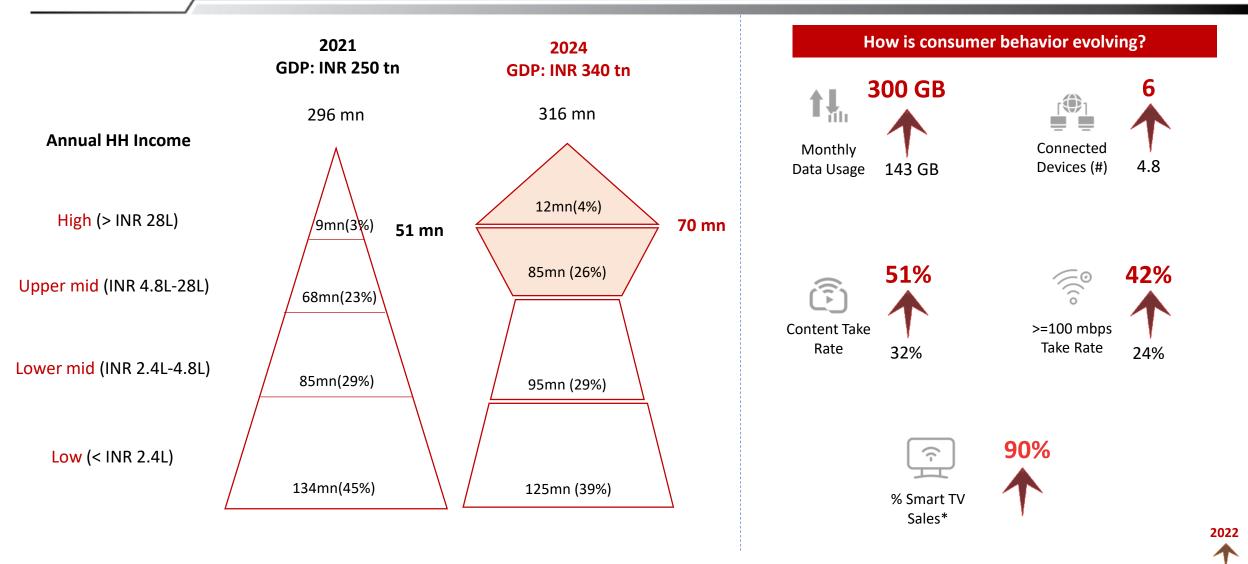
Strong Outlook | India Broadband Industry set to add 6 mn NADs 55mn subscriber base by FY'27



TEAM23

Rising affluence & evolving consumer behaviour to open up 70mn HHs





2020

Broadband, now an integral part of Life



Wi-Fi is now my basic need



Anu, while **shifting** to a new city, realized her **apartment's power had been snapped** off & hence kept declining our Installer's call.

Airtel's UPS to her surprise, put her online. Setting her up for her Bhagavad Gita class, with practically <u>nothing in her home, just Airtel Wifi!</u>

Gives me my 'Sense of Confidence'



Manish Sharma, working with Capgemini was doing **WFH** at his native place in for last 2 years. He was **using a mobile dongle** for it in the absence of Fiber.

Like a lot of people who have **migrated back to cities**, he was asked by his organization to attend office inperson. He took up Airtel Xstream fiber instead of using his dongle as he wanted a <u>reliable connection</u>.

His source of recommendation was **social proof**, "Everyone is using airtel in my four-storey building".

Enables me to progress in life



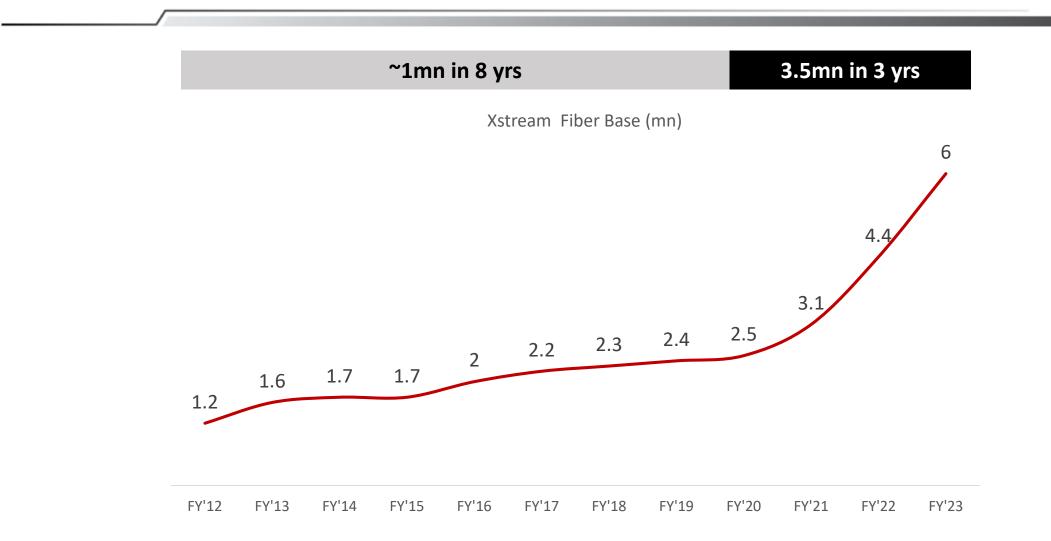
Md. Mosin, a scrap dealer in Itarsi, MP, a tier 2 town, wanted to **upgrade from mobile TV viewing to a bigger screen** & better experience, in order to not miss out the WC22 IndvPak match, at his shop.

Bought a <u>smart TV</u>, creating the need for getting a fiber connection. Which in turn **opened up more avenues for him**.

He also went on to install **smart cameras** to monitor & secure his shop front.

Expectations from broadband have now shifted Permanently! -> BASIC FACTORS THAT WERE NICE TO HAVE, ARE NOW HYGIENE FACTORS.



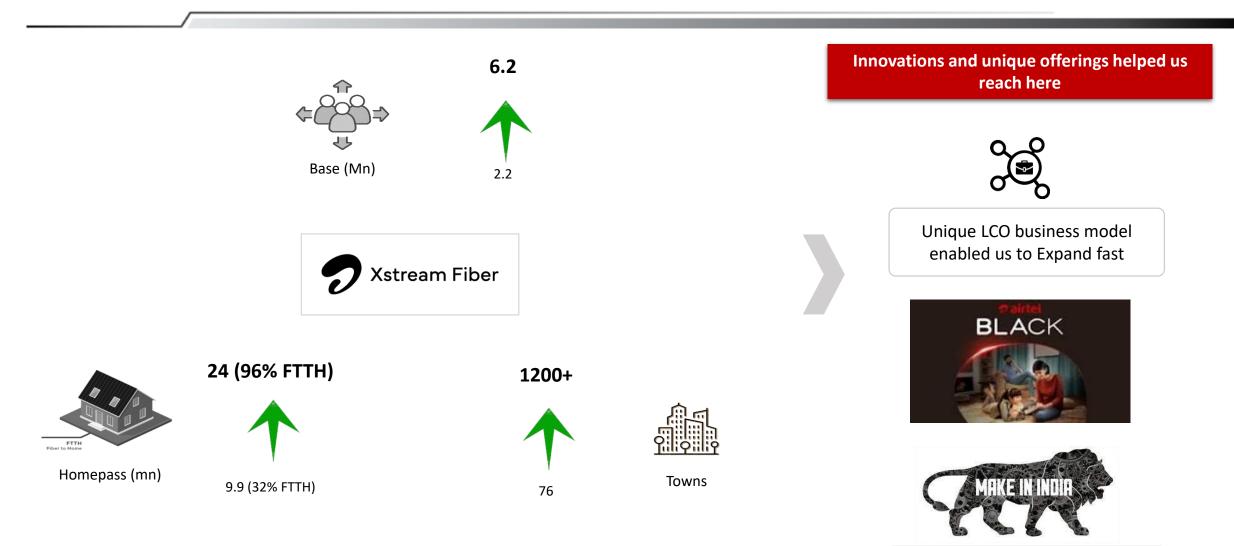


10k field force + 15k engineers today serve 6mn happy homes!

What has helped us reach 6mn?

Dec 2019 → Apr 2023

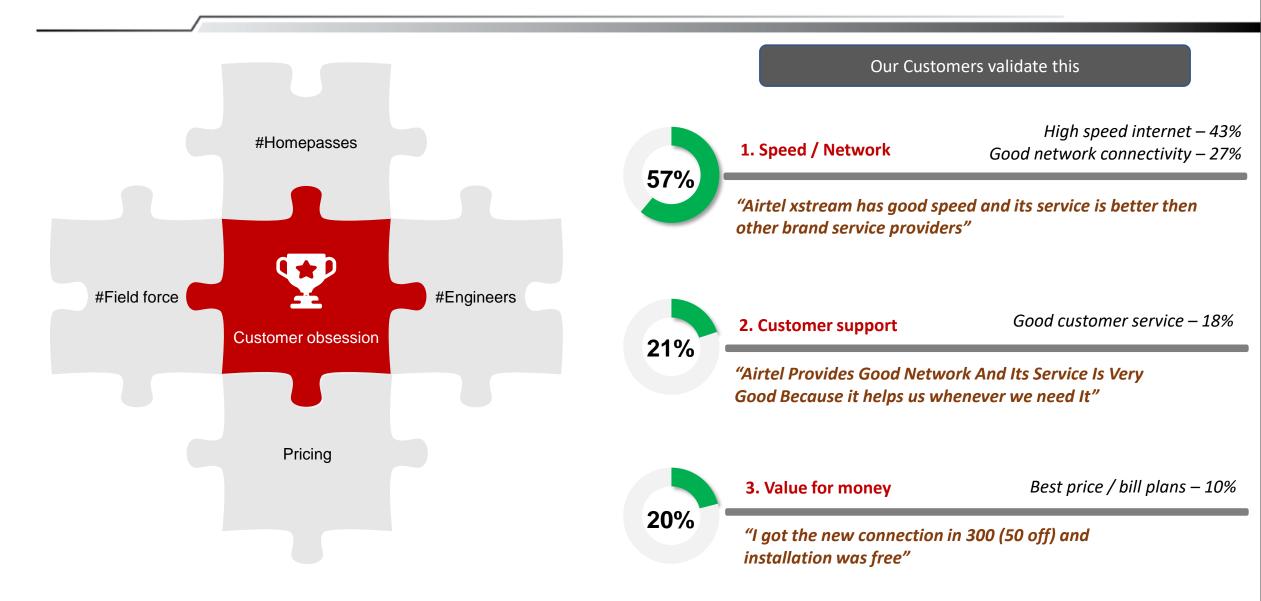




100% Make in India Routers

Our Customer Obsession has helped us grow!





Our customer stories

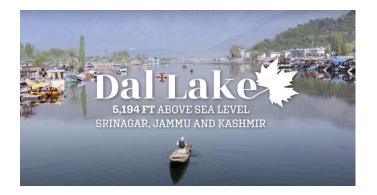


Airtel Xstream fiber helped students in Far fetched Kargil to learn online





Airtel Xstream fiber connected dal lake to the world

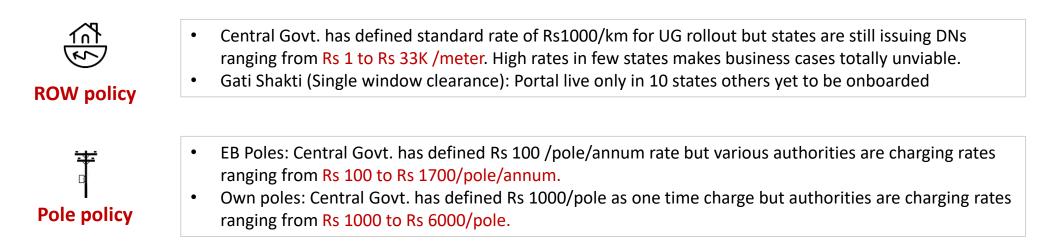




Enablers needed for more people to get connected to fiber!



Enforcement of central policies by local bodies \rightarrow help the ecosystem



There are 1007 reported ISPs with TRAI but in reality market has many more ISPs



• Industry is eagerly awaiting 8% license fee waiver for broadband to boost Capex deployment by private players which in turn will lead to more homes getting connected

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Subscriber reporting

#ISPs as per TRAI reporting								
Jun'20	Jun'21	Sep'21	Dec'21	Mar'22	Jun'22	Sep'22	Dec'22	Mar'23
342	440	522	616	653	666	846	907	1007

Need stricter compliance to safeguard subscriber interests and to ensure 100% license fee collection

Enablers needed for more people to get connected to fiber!



Enforcement of central policies by local bodies \rightarrow help the ecosystem



Need to ease Point of interconnection (POI) approval from BSNL

Landline Voice

- Policy to handle Private ROW like Housing Societies, Private SEZ etc.
- Easy and standardised cRecovery of Security Deposits, Bank Guarantees, GST Invoices etc
- Standard restoration charges to be defined centrally
- Shortening of approval process from different government bodies like Forest dept, NHAI etc.

Additional recommendations

What will we cover





About our Home Broadband Business





Building Big Pillars of Data Business

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Changing Service Industry

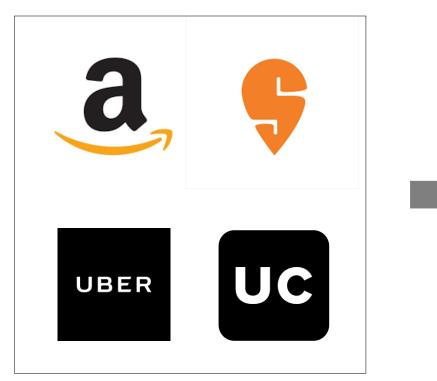




E-Commerce companies have changed the customer's expectation

How did they do it?





- **1** Provide appointment to customers as per their convenience
- **2** Ensure 100% appointment adherence
- **3** 100% process adherence for any service



2



Follow 3 Steps of Excellence

Appointment availability as per customer's convenience

Reach as per appointment : "100% Slot Adherence"

Follow Method of Procedures

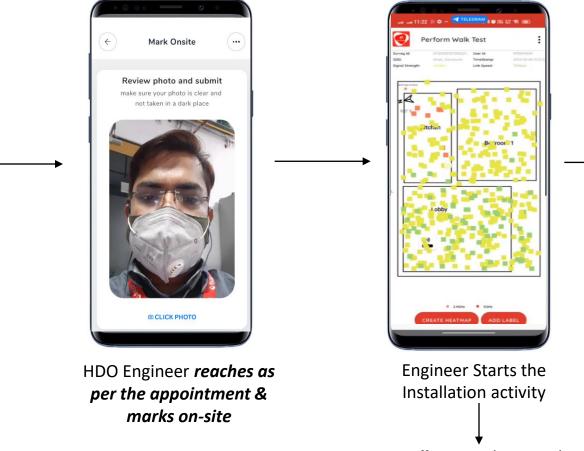
Promise Fulfilment | Quality Delivery

How do we do it?





Order booked with the *customer appointment*



Walk Test is done to check the Wifi coverage across the house



Engineer completes task as per the process

Future Plans | Delivery through MOP



What is a Method of Procedure?

- Task will be broken into smaller steps
- System will diagnose the correct steps for any task
- Engineer will be guided step by step by the system to ensure quality delivery & reduce human error

Travel	External Wiring	External Wiring	External Wiring	External Wiring	Install router
▼⊿ ∎ 12:30	▼▲ 12:30	▼▲ 12:30	▼▲ ■ 12:30	▼# 12:30	▼▲ ■ 12:30
← Broadband Install	← Install Router :	← Install Router :	← Install Router :	← Install router	← Broadband Install :
Clear is given all (the GP she dear with HE muchair all of the GP she dear in HE muchair all of the GP she dear in the Clear all of the GP she dear in the Clear all of the	Piece router at a central location and click image	Bretes here	Image: Complete Sector Complete	Heat-map Will coverage to table the resammended level, table Consent code 122454 Resent Submit	Control that have completed that starts ROM Install Router () 1201 Install Router () 1201 Install Router Install Router I

Images are only for representation purpose

What will we cover

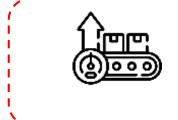




About our Home Broadband Business



What are we doing differently



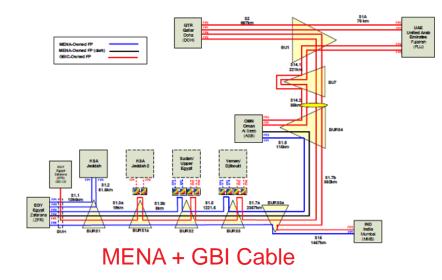
Building Big Pillars of Data Business

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Subsea Cables – Airtel - Atlantic Cables

Cable Name	Investment	Route	Commissioning Year
EIG		Mumbai - Europe	2011
IMEWE	Consortium	Mumbai - Europe	2010
SMW4		Singapore - Europe	2005
MENA	Drivete	Mumbai - Italy	2014
GBI	Private	Mumbai - Italy	2012







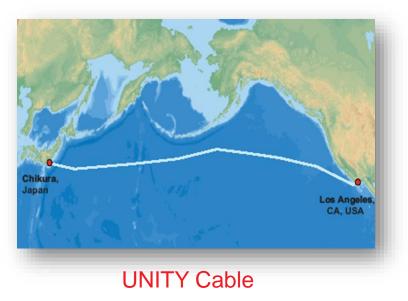


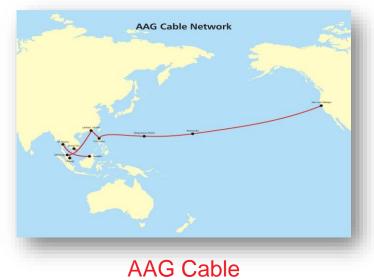
Airtel - Indian Ocean & Pacific Cables



Indian Ocean & Pacific Cables

Cable Name	Investment	Route	Commissioning Year	
AAG	Concertium	Singapore - US	2009	
UNITY	Consortium	Japan - US	2010	
121	Private	Chennai - Singapore	2002	









International Submarine Cables as alternate OR Backup to NLD

- ✓ Challenges in standalone Submarine cable as NLD
 - High capital cost per unit due to single purpose built.
 - 2. High cost of maintenance.
 - Submarine Cable with in territorial waters will have lower stability.
 - 4. Cable safety is a challenge due to shallowness of territorial water.
 - 5. Inability to carry international capacity.

- How International Submarine cable as NLD can solve these challenge.
 - Cable laying cost is lower in deep waters (outside EEZ).
 - Shared cost with international users will give economies of scale.
 - 3. Cable are more stable in deep water andlower outages will lead to have lowermaintenance cost.





- High turn around time in Indian water as compared to other countries
 - Multiple permits and clearances required.
 - Longer permit process leading to high cost.
- Customs regulations post GST.
 - Immortalization was applicable up-to territorial waters (12 nautical miles) limits.
 - Post GST immortalization is applicable up-to EEZ (200 nautical miles) limits.
 - This regulation is only implied in India only and not followed by any other country.
- Cable cuts due to fishing trawlers
 - In last 10 Years majority of the failures were attributed to fishing trawlers
 - There is no effective mechanism for information sharing and safeguarding cable route.

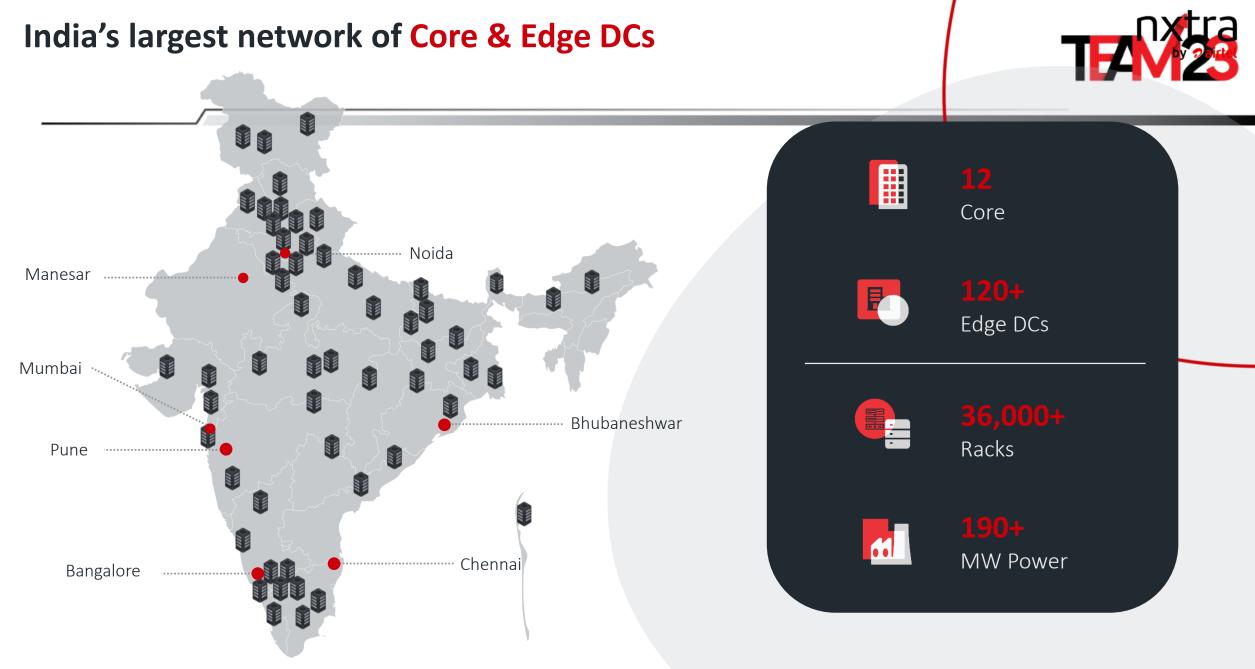


- Time bound online single window process for permits.
- Implementation clarification received from CBIT on customs.
- Coordination with Fisheries Department to improve the cable safety.



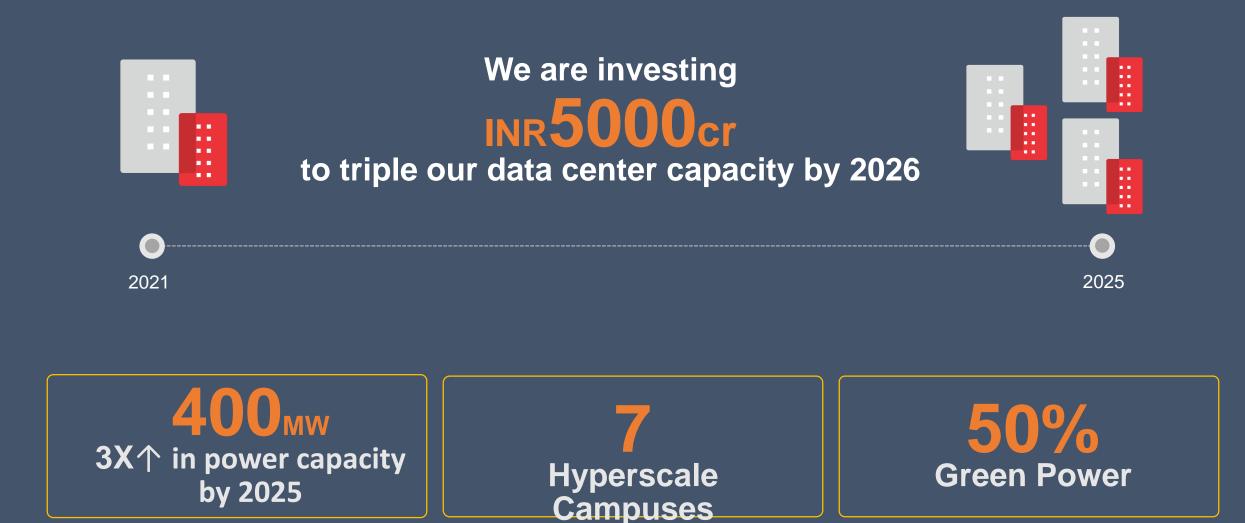
Get closer to your customers with India's largest network of data centers





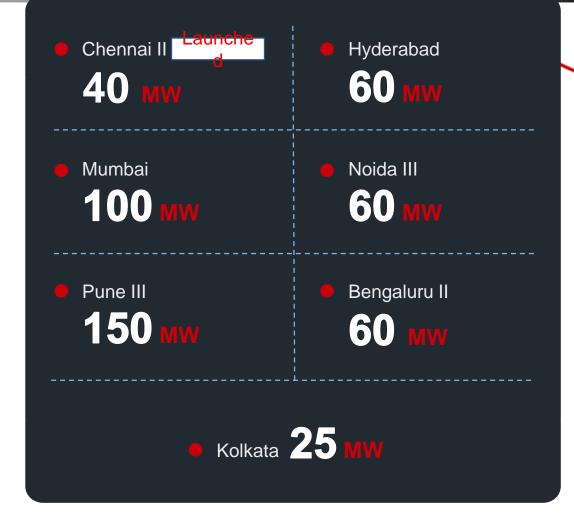
Exponential Expansion





Access future-ready Hyperscale DC Campus across India





Committed to build a more sustainable future





Green power consumption to increase from 34% to 50%



Sustainability in design and operations



Invest in green power companies.

12 companies funded till date.

In next 12 Months, we aim to meet over 80% power requirements of our large Hyperscale data centres across India through renewable sources

Challenges

nxtra

- Pre and Post construction approvals
 - Long gestation period especially on Environment clearances and CTE approvals
 - No Single national policy for all Civil, Electrical and Operational certifications- Need to work with different departments and different city organizations
 - Ineffective Single window clearances
 - No Defined Indian data center standards
- Power and Sustainability
 - High power Tariff costs and huge variation across states
 - Capping on Renewable energy process and settlement process
 - Capex borne by DC operators for Infra creation of Electricity distribution boards
- Financial
 - GST input credit on Civil construction is not available for set off against Data center services, thereby making the construction costlier by 18%

