



stl.tech

Investor Presentation Feb'21



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Company Overview



Company
Overview

1

The Digital Networks
Growth Story

2

STL Unique
Value Proposition

3

Q3 FY21
Updates

4

STL
Financials

Annexure

We Integrate Digital Networks for Our Customers

Core
Business

Customer
Segments



Telcos



Cloud
Companies



Citizen
Networks



Large
Enterprises

opticonn

Optical
Connectivity



Fibre
Deployment



FTTx Access
Network

netmode

Network
Modernisation

End-to-End
Solutions

Portfolio
Offerings



Optical
Interconnect
Products



Virtualised
Access
Products



Network
Software
Products



System
Integration
Services

Unique
Capabilities

- Glass Preform
- Optical Fibre
- Optical and Specialty Cables
- Optical Interconnect Kits

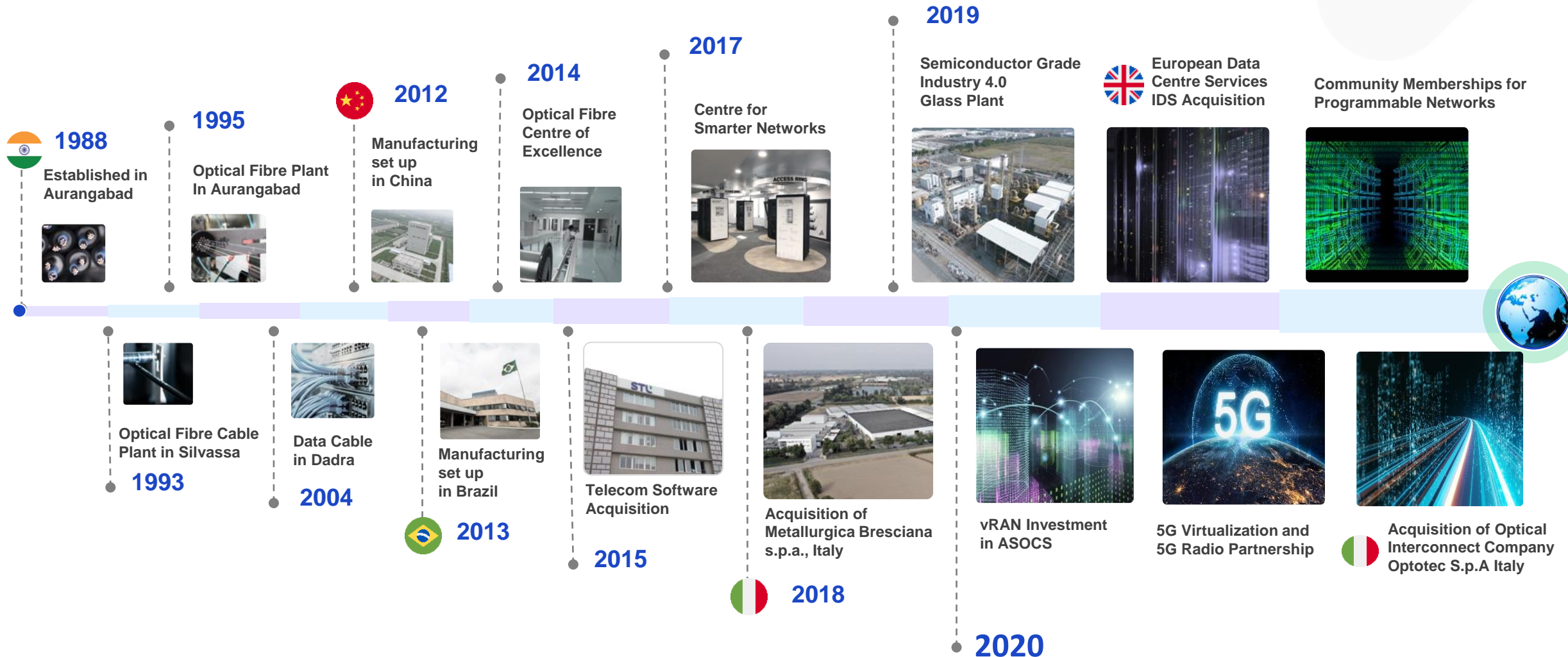
- Programmable FTTx
- Virtualised RAN
- RAN Intelligent Controller
- Network Orchestrator

- Digital BSS Platforms
- Network Operations Platforms

- Network Design Services
- Fibre Rollout Services
- Network O&M Services
- Data Centre Network
- Private Enterprise Network

Starting from optical fibres

We now build digital networks globally



Our company in numbers



\$687 Mn.

FY20 REVENUE

India (66%), EMEA (27%),
America (3%), China (2%), RoW (3%)

7

GLOBAL PRODUCTION FACILITIES
50m fkm optical fibre capacity

GLOBAL FOOTPRINT



4

INNOVATION CENTRES
Research & Development

462

PATENTS
Across the network layer

Zero

WASTE TO LANDFILL
Shendra, Rakholi, Dadra

30+

NATIONALITIES
~3,100 Employees

We have a comprehensive Portfolio of offerings



Optical Interconnect Products

- Glass Preform
- Optical Fibre
- Optical and Speciality Cables
- Optical Interconnect Kits



Virtualised Access Products

- Programmable FTTx
- Virtualised RAN
- RAN Intelligent Controller
- RAN Orchestration



Network Software Products


- Digital BSS Platforms
- Network Operations Platforms




System Integration Services

- Network Design Services
- Fibre Rollout Services
- Network O&M Services
- Data Centre Network
- Private Enterprise Network

We have four customer segments



A tall telecommunications tower with multiple antennas and a worker visible on a platform. The background is a clear blue sky.




A white icon representing a telecommunications tower with signal waves.


Telcos

to connect

each customer with the latest data applications while ensuring better experience



A row of server racks in a data center, illuminated with blue and green lights.



A white icon representing a cloud with a network of nodes and lines.

Cloud Co.

to enable

future applications and immersive content by bringing compute and storage capabilities to the edge



A smiling woman with dark hair, wearing a black sleeveless top, holding a smartphone.




A white icon representing a city skyline with a signal tower.


Citizen Networks

to empower

every citizen with high-quality primary connectivity



Two large naval ships sailing on the ocean under a clear sky.



A white icon representing a city skyline with a signal tower.

Large Enterprises

to create

secure networks for the specialized enterprise use cases

We are passionate about new technology development



4 Innovations Centres

with world class R&D capabilities



Innovating with Startups, Future Disruptors

462 Patents in Optical Connectivity, Network Software & Services and Access solutions

STL named as one of Top Tech Challengers in BCG Tech Challengers Report 2020

With our technology focus & deep engagement, we have delivered results for our customers



30% faster fibre to the home provisioning

Using **Yogalite™ Cable** with Micro-Module for a leading **French Carrier**

2x faster rollout for world's 1st Exabyte network

Using **LEAD360™** and **FTTx Mantra™** for leading **South Asian Telco**

40% cost efficient SDN ready network

Using **FTTx Mantra™**, **iCORE™** to provide high-speed broadband in **4.5 mn homes in Telangana**

3x deployment speed for digital inclusion

Using **LEAD 360™** approach to connect **7.5 mn people and 4,045 villages in Maharashtra**

50% reduction in cabling requirements

Using **POWER-Tx™** Solution for a **Global Cloud Co.** to serve high Speed data with power

35% reduction in installation cost

Using **TruRibbon™** to serve high capacity data transfer with extremely low latency



Telco



Citizen Networks



Cloud Co.



Large Enterprises

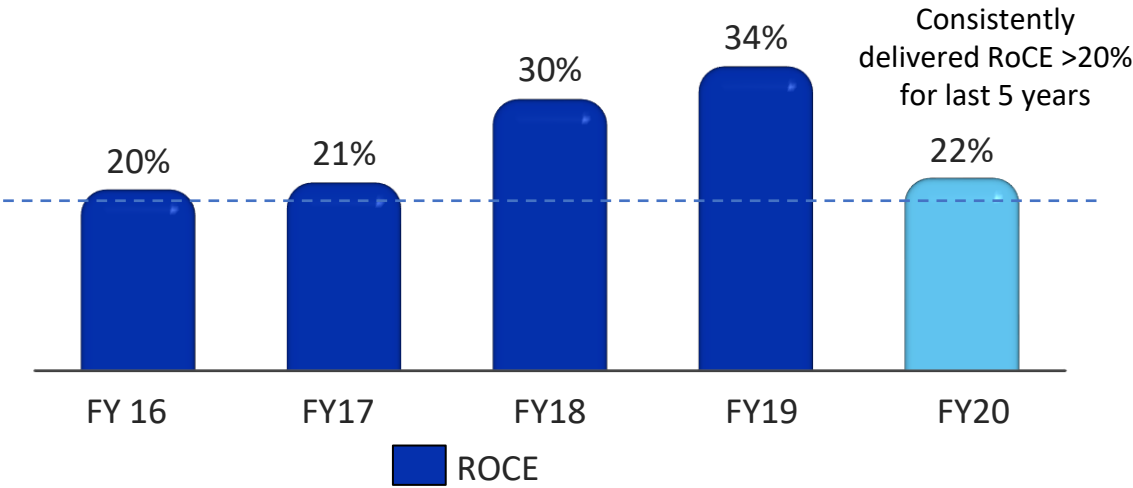
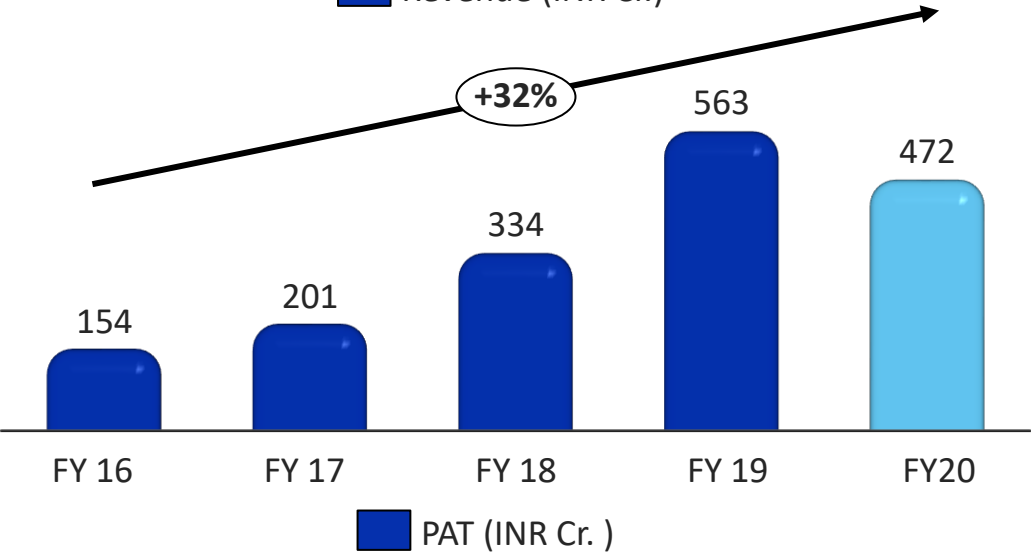
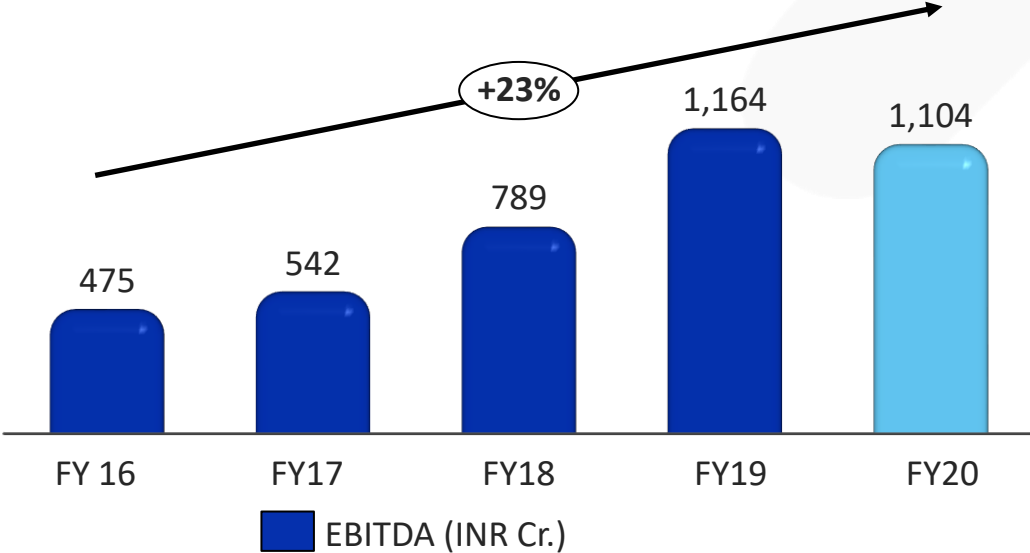
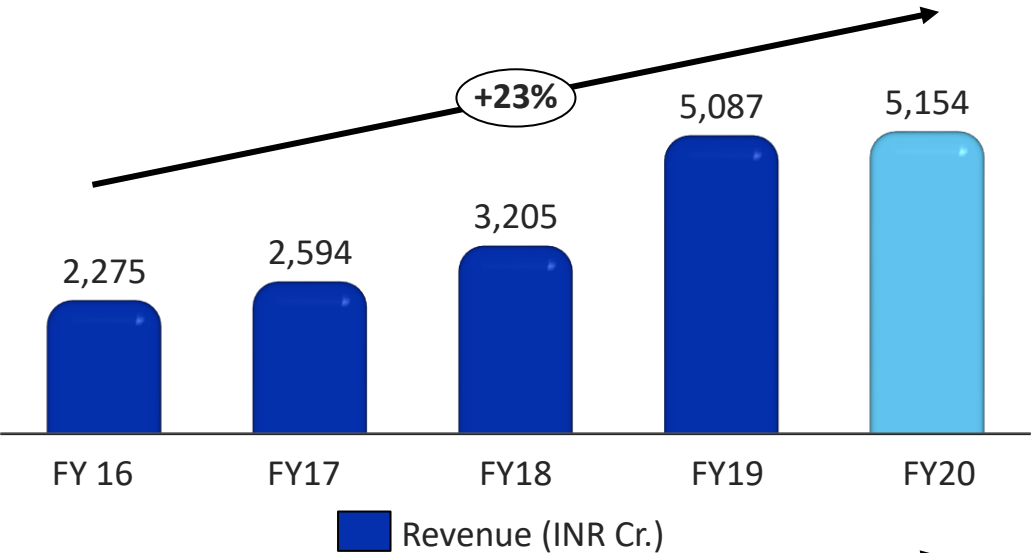
Network modernisation

\$500 mn multiyear project across 1600 sites to design, execute, O&M the **Indian Naval Network**

7x deployment speed in 10k+ Kms OFC network

\$350 mn project for creating the **world's largest intrusion-proof network in J&K** for **Indian Army**

Alongside, we have also delivered sustainable value for our shareholders



Above all, we are driven by our purpose to transform everyday lives across communities



Environment | Social | Governance



Eco-friendly & Responsible Operations

Caring for our people & the environment

Policies & Systems

on Human Rights, Labour Practises, Fair Wages

900,000 m³

Water recycled and reused at STL and replenished in surrounding communities

6,000+ tCO₂e

Avoided through in-plant initiatives and plantations in surrounding communities



CSR Initiatives

Enabling millions using tech & connectivity

1.32M+

lives impacted

Signatory

To the UNGC

3,000+

Rural women Empowered

1,000+

Individuals digitally empowered



World's 1st ZWL Certified

Driving Sustainability

64,000+ MT

Waste diverted from landfills

94%

of our industrial waste does not go into landfill

830 MT

Plastic saved through innovative packaging

3R

Approach to reduce, reuse, recycle



Sustainability Goals

2030: Towards a Cleaner & Greener Future

100%

- STL manufacturing locations ZWL certified

- Water Positivity

- Sustainable Sourcing
- STL products families covered under LCAs

50%

Reduction in STL's carbon footprint



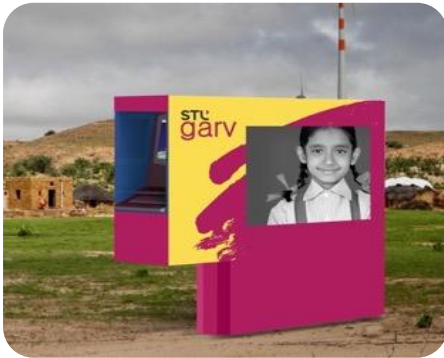
CSR Goals

2025: Facilitating a More Inclusive Society

5 Million

- Impacting 5M lives
- Undertaking 5M plantations
- Replenishing 5M cubic meters of water in communities

CSR Initiatives and its Impact



Innovating for good

Transform

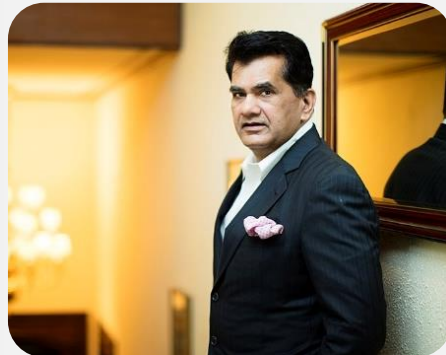
Rural India (Piloting in 11 villages)
for digital readiness

Results

- 27% increase in internet usage
- 76.2% women using supplementary education
- 50% more usage of Govt. Apps
- 8.7 average user rating

STL Garv

- Launched at a power packed virtual event by Shri Amitabh Kant, CEO Niti Aayog
- Industry's first 'Digital Inclusion' solution.
- Impacting over 54k lives across Maharashtra, Telangana, and Uttar Pradesh



Skilling for a better future

86k

Trained Professionals

16K

Certified Professions

Academy

training for deployment of future
ready networks

STL Academy

- Now in Guinness Book world Record
- World's largest online workshop



The Digital Networks Growth Story



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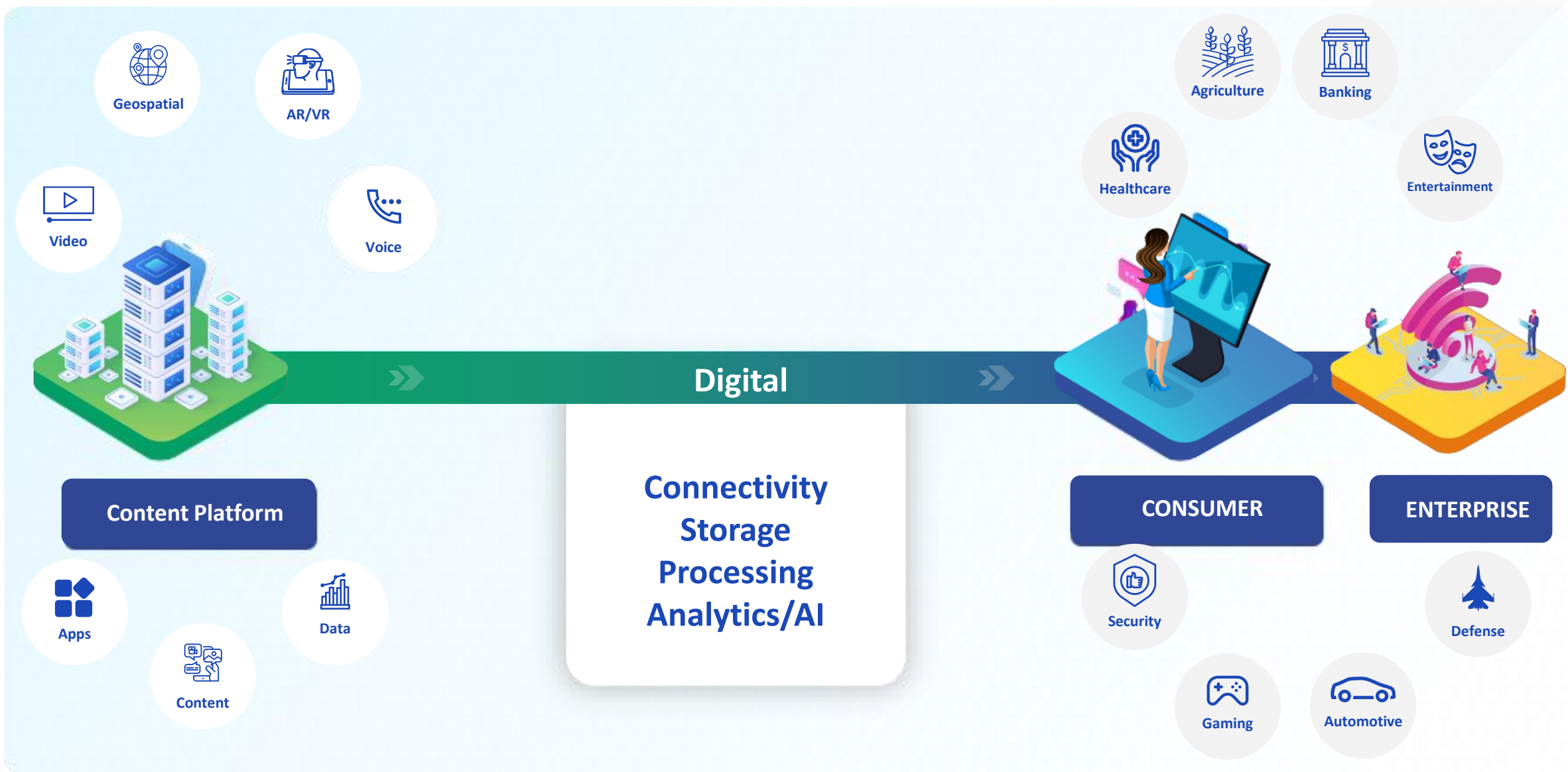
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STL
Financials

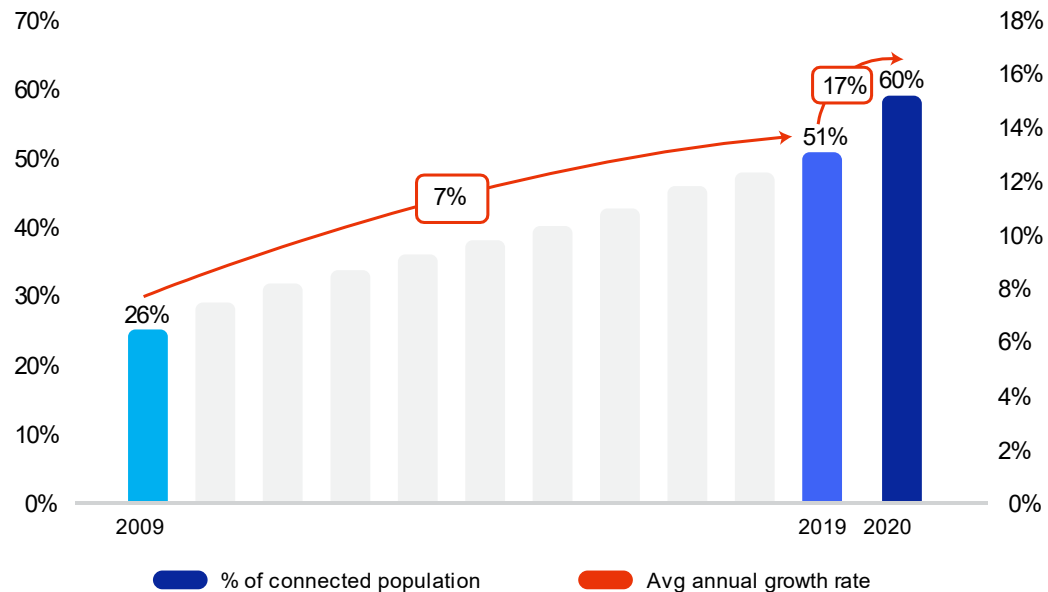
Annexure

We have seen an evolution from Telecom to Digital



2020 was a year of inflection for digital networks

a User growth accelerated significantly ~2Mn users added daily in 2020



Figures from Statista

b Network creators decided to invest disproportionately

Multi bn. \$ commitments, urgency



BOSCH **Lufthansa**
Invented for life

Enterprise spectrum saw huge demand in US, UK, Germany,
Many companies applied to set up **local 5G networks.**

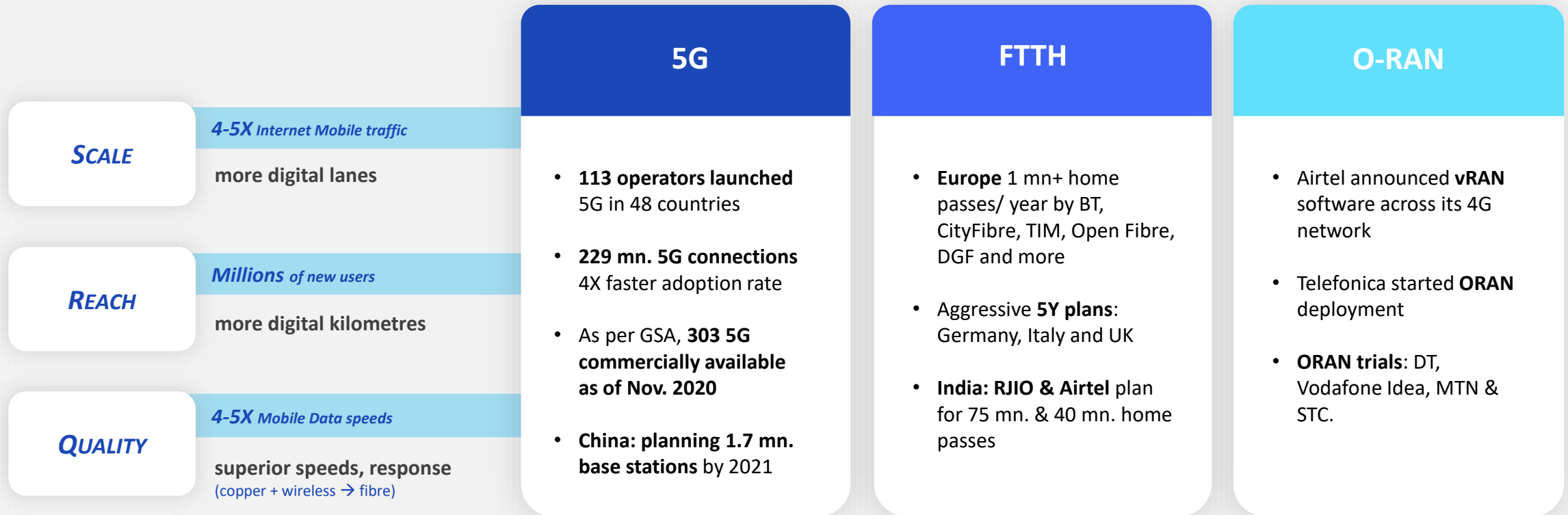


allocated **\$9.2 bn.** In reverse auction for rural digital opportunity fund



Announced investment of **\$10 Bn** in US data centres & offices in 2020

2021 has kickstarted the decade long network creation cycle



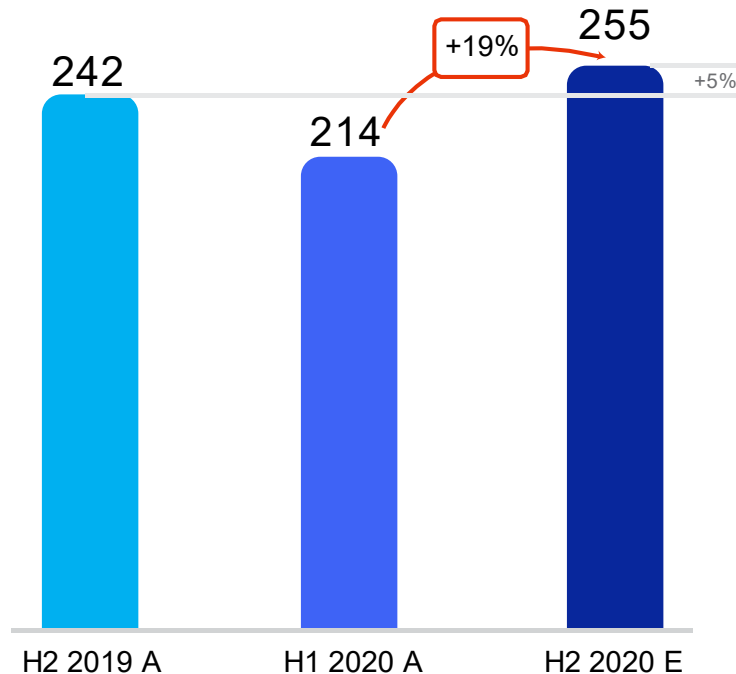
The decade of network creation

5G & FTTH deployments are revving up the optical demand



Optical fiber demand buoyed by investments in digital infrastructure

Units: Mn. fkm.



H2 2020 estimated growth at 5% YoY,
2021 growth estimated at 7% YoY



N. America

Continued growth in deployments specially from tier 2 / 3 carriers



CHINA

Market started to grow on back of 5G base stations deployment



EUROPE

Buoyant FTTH demand, slightly slowed down by the second COVID wave



INDIA

Expected revival in 2021 on back of FTTH deployments & demand from Bharatnet

The decade of network creation

Next gen networks are being built on 4 technology confluences



Close to the Edge
EDGE

At the Edge

By 2025, **75%** of enterprise-generated data will be created and processed at the edge – as against **10 %** in 2018

Gartner

Seamless Wired & Wireless
CONVERGED

Optical

&

Radio

FTTH network can be very easily made **ready for 5G** with minimal additional investment



Enhanced Experience
COMPUTE

Connectivity

&

Compute

Micro data center market will leap from **\$3 bn.** in 2018 to nearly **\$15 bn.** by 2025

Global Market Insights
Insights to innovation.

Agile, Scalable, Agnostic
DISAGGREGATED

Hardware

&

Software

Dish plans to cover **70% of the US population** by June 2023 with its standalone Open RAN-based 5G network



STL Unique Value Proposition



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STL predicted and prepared itself for these technology confluences



LARGE SCALE NETWORKS
SYSTEM INTEGRATION

10 Years Network Design & Integration Solutions

OPTICAL
INTERCONNECT



25 years

Extraordinary track record
Globally respected

VIRTUALIZED
WIRELESS

(SOFTWARE, CLOUD)



5 years

Strategic alliances and
product development



Digital Network
Integrator

Close to the Edge

EDGE

Seamless Wired & Wireless

CONVERGED

Enhanced Experience

COMPUTE

Agile, Scalable, Agnostic

DISAGGREGATED

At the Edge

Optical

&

Radio

Connectivity

&

Compute

Hardware

&

Software

STL can integrate
all these
technologies

We have 25 years of experience in optical connectivity



Optical Fibre



Waluj
Aurangabad
India



Shendra
Aurangabad
India



Jiangsu Sterlite
Tongguang Fibre Co.
Limited
Haimen-City
China



Rakholi
Silvassa
India



Metallurgica
Bresciana
Dello
Italy



Sterlite Conduspar
Parana
Brazil



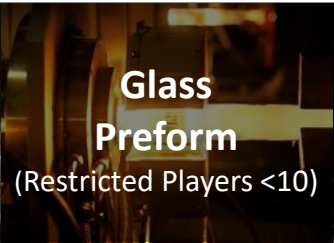
Dadra &
Nagar Haveli
India

Optical Fibre Cable

Speciality Cable



Pure
Silicon



Glass
Preform
(Restricted Players <10)



Optical
Fibre
(Limited Players <50)



Optical
Fibre Cable
(Cable Manufacturers <200)



Optical
Interconnect

STL's unique manufacturing capabilities with full vertical integration. Also top 3 integrated fibre producer globally

7

GLOBAL
PRODUCTION
FACILITIES

50M

FKM OPTICAL
FIBRE
CAPACITY

33M*

FKM OPTICAL
FIBRE CABLE
CAPACITY

Industry 4.0 standards

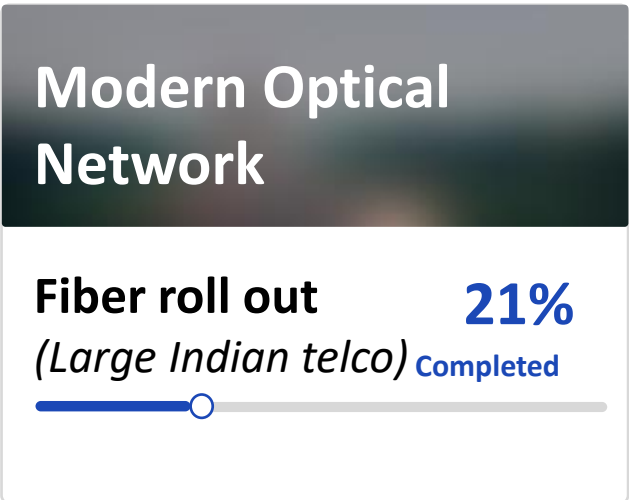
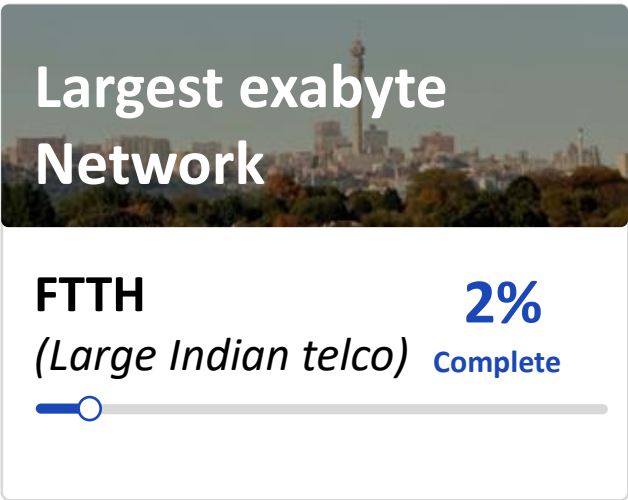
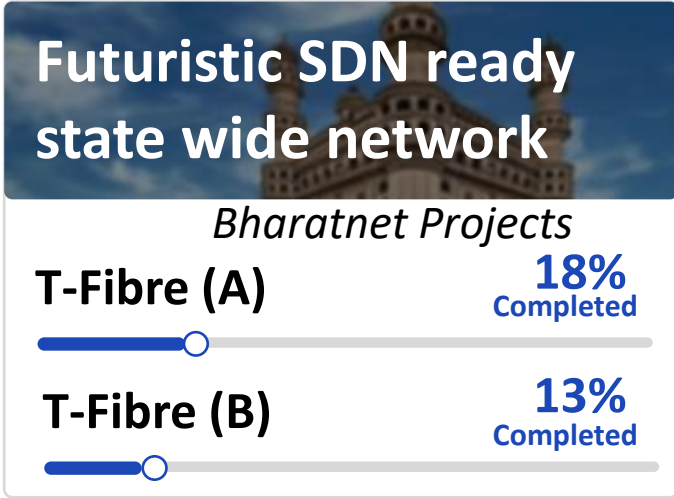
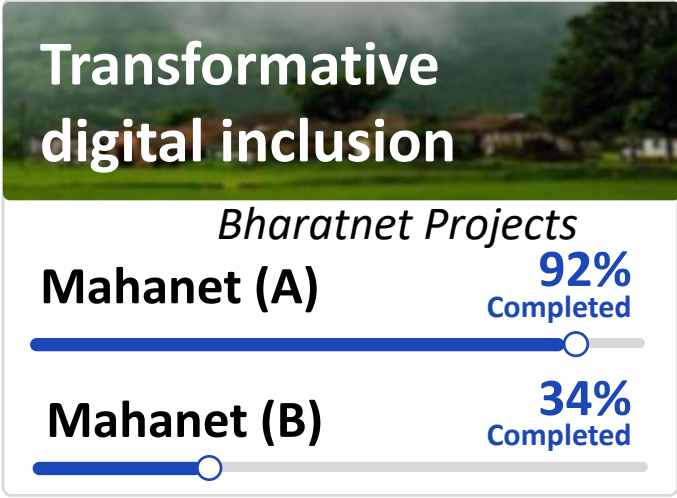
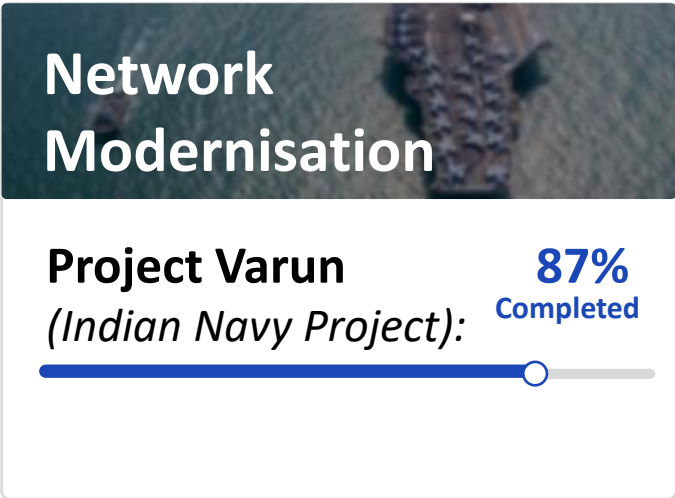
Fully automated machinery with robotic operations

Efficient supply chain

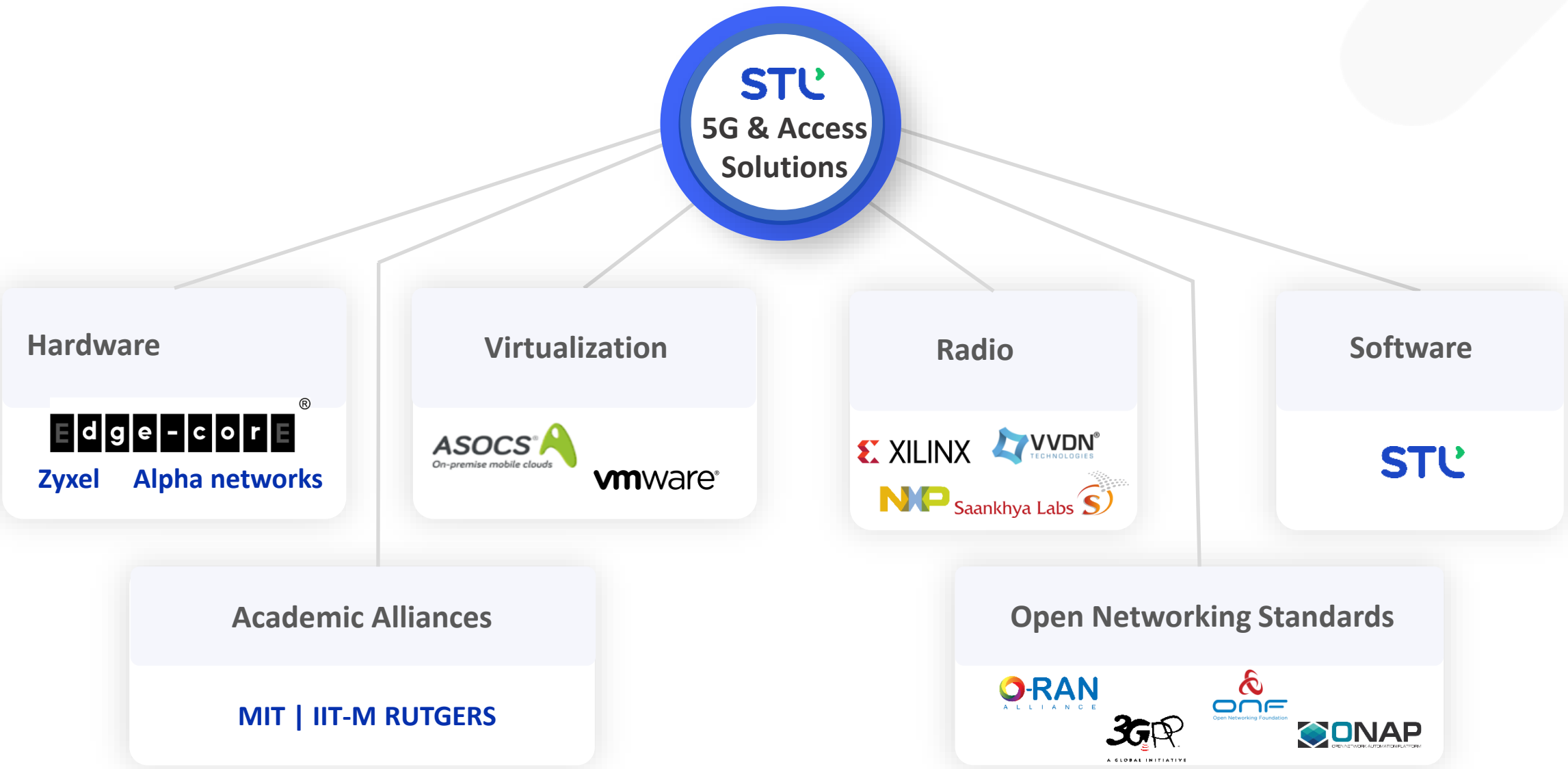
Reduced delivery times and SCM cost

*** Plan to reach by Jun 2021**

We have expertise to integrate large-scale complex digital networks



We have developed an ecosystem in wireless access technologies



Our future roadmap is built on 5 strategic pillars



1



Technology-led E2E Solutions

Increasing market
share by integrated
technology

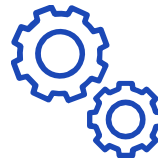
2



Ecosystem Alliances and Investments

Increase Addressable
Capex through
strategic
investments

3



Large – Scale Complex Integration

Developing better
integration practices

4



Key Accounts Management

Target 21 KAMs
globally

5



Top Talent and Culture

Drive good returns
to our stakeholders
/community

Q3 FY21 Updates



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Our flagship optical connectivity portfolio is now complete



Tech-led solutions



E2E integrated optical solutions

- **STELLAR FIBRE** - World's leading bend insensitive optical fibre
- **CELESTA CABLE** - Ultra high density cable, rated better than the best
- **Prepared Subsystems KITS**-
Underground & aerial optical interconnect kits

opticonn



OPTOTEC
OPTICAL TECHNOLOGIES

Wide Ranging OI Portfolio

Addressable market \$8-10 Bn.

Spring board for combined offering



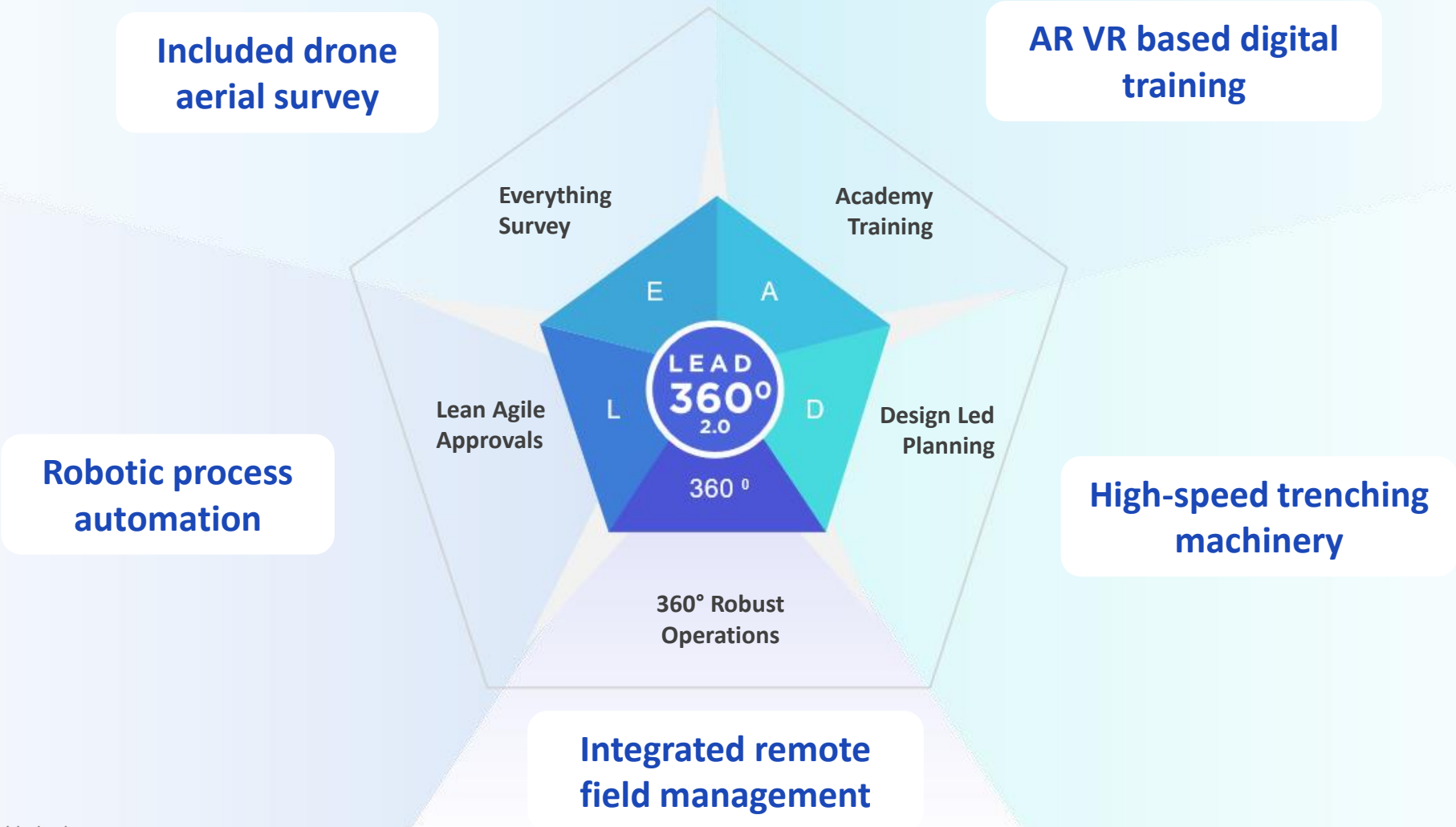
We have made tech-enhancements to our integration and delivery solutions



Tech-led solutions 



STL LEAD 360° 2.0



We have launched a range of commercially viable wireless solutions **STL**

Tech-led solutions



5G Multi-Band Radio

Comprehensive Open RAN (Radio Access Network) solution spanning across Radio Unit (RU), Centralized Unit (CU) and Distributed Unit (DU)



Garuda

An O-RAN compliant, indoor small cell solution



Wi-Fi6 Access Solution

An integrated solution that leverages Wi-Fi 6 technology to provide carrier-class connectivity in dense environment



We are investing in OFC capacity expansion



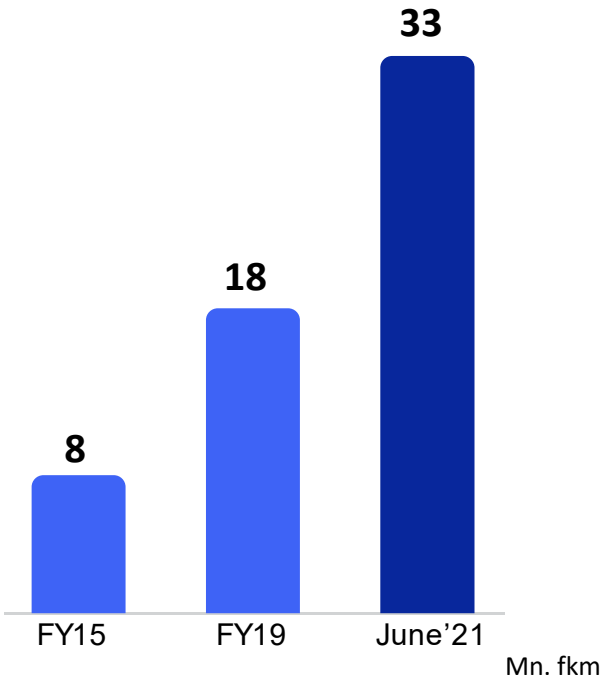
Ecosystem,
Investments



OFC capacity expansion to 33 mn.



Optical fibre cable capacity



OFC expansion project is on track vis-à-vis timeline & budgeted cost

Large scale projects with tier-1 telco & cloud players



Large-scale
integration



We are driving deep customer engagement with a focus on 21 key accounts in India, Europe & MEA



Key accounts management



**Built
Organization
with KAM
Expertise**

**Account Based
Organization**

Regional multi-disciplinary teams

**Global Experts in
Customer
Engagement**

From Nokia, Prysmian, Infinera



**Investing in
Processes and
Capability**

**Multi-disciplinary
Teams**

Hackathons, Tech sparks, War rooms

Systems for KAM

Salesforce adoption, Blue Sheets
(Miller Heiman)



**Deep Engagement
with Key Accounts**

Revenue:
Increased share of Capex

Spread:
E2E Solutions Engagement
Adding Services, Cables, Networks design
and Virtualization to KAMs.

New Tech Development:
Driven by Customer POCs
Customer Involvement in 5G Multiband
Wifi6, High Fibre Count IBR

We are getting top global talent to drive strategic outcomes



Key Account



Sandeep Girotra

**Global Sales
Head
STL**

*25 years of experience
building Key Accounts
and driving 10x growth
at Nokia*

Technology



**Srinivasan
Jagadeesan
Head, Wireless
Product
Development**

*30+ years of experience
in new product
development & systems
engineering*

Policy



Anjan Das

**Chief Policy
Advocacy
Officer**

*More than 3 decades of
experience in
strengthening India
innovation ecosystem.
Worked as Executive
Director at CII*

UK Services



Keith Rowley

**Chief Delivery
Officer, Network
Services,
UK**

*20+ years of experience in
communications Industry
driving strategic initiatives
and transformation
programs*

Software



Saikat Mitra

**Chief Operating
Officer, Network
Software**

*24 years of experience in
telecom industry leading
companies with special
focus on technology
innovation & customer
engagement*

Top talent



STL Financials



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Our participation funnel is growing



Key Opportunities



**LARGE EUROPEAN
TELCO**

FTTH ROLLOUT



**LARGE EUROPEAN
TELCO**

OPTICONN



**LARGE INDIAN
TELCO**

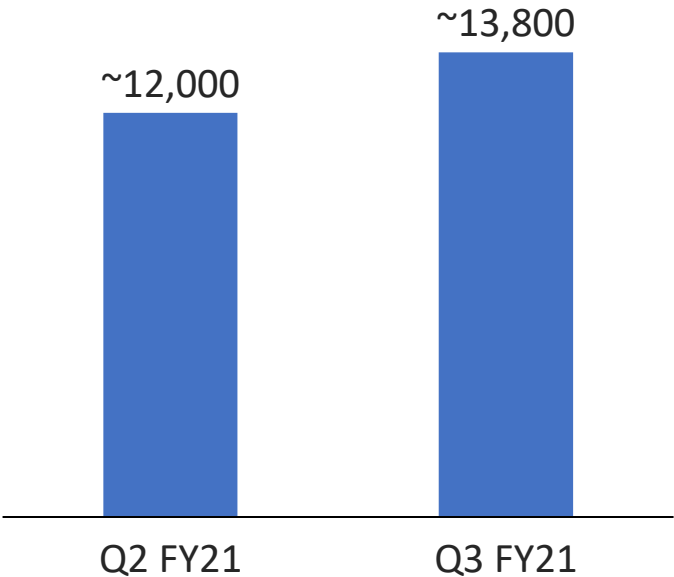
ACCESS SOLUTIONS



**CITIZEN
NETWORKS**

FIBER ROLLOUT

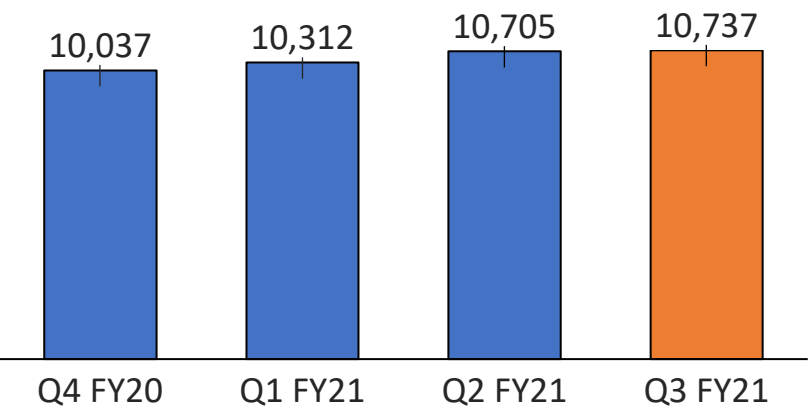
Open Participation Funnel (Rs. Cr.)



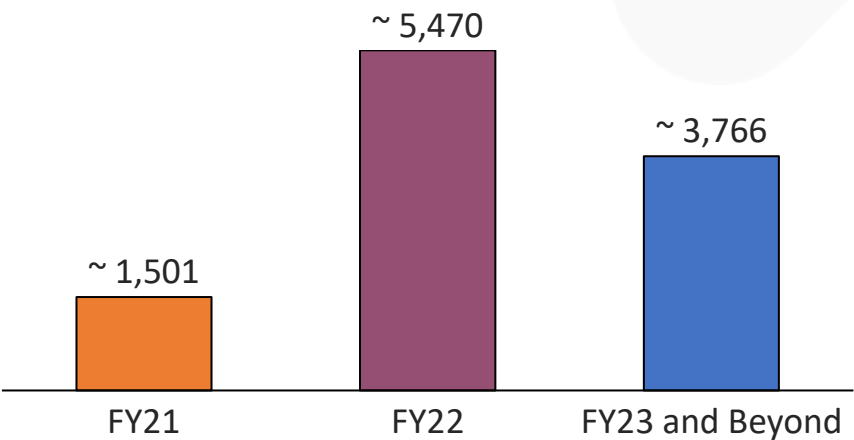
Translating into healthy order book



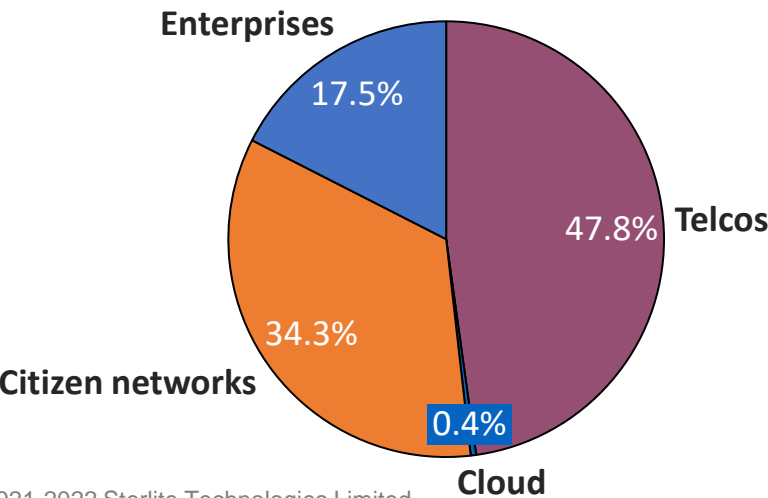
Open Order Book (Rs. Cr.)



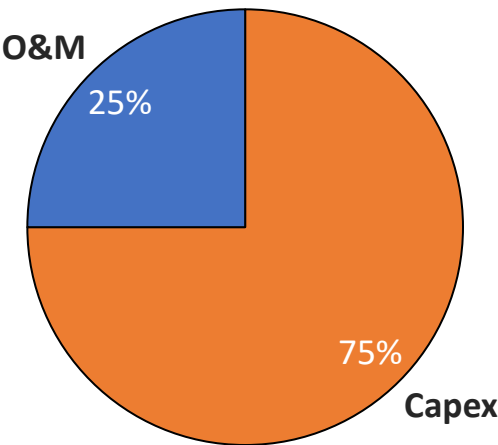
Order Book Spread (Rs. Cr.)



Open Order Book Customer Segment wise



Open Order Book Split



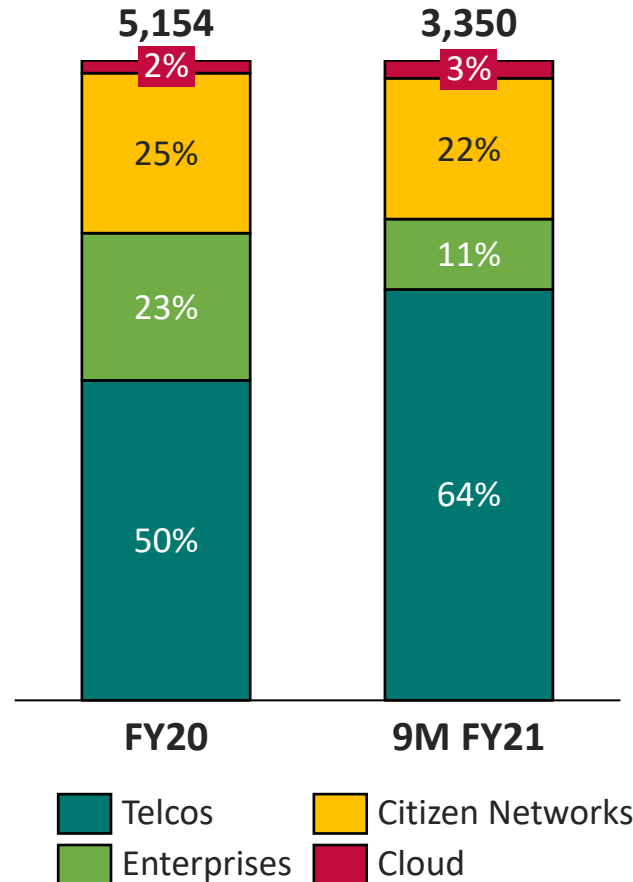
Revenue mix is balanced across customers and geographies



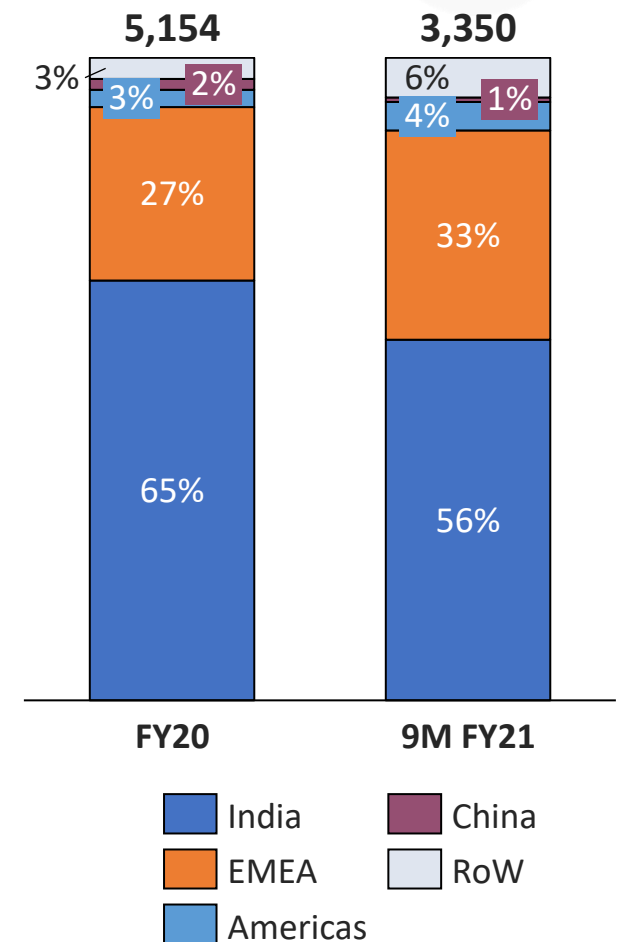
Key Order Wins Q3 FY21

- A five year, multi million dollar contract for supply, warranty & maintenance of **5G RAN systems**
- **Opticonn solution** for a leading telecom player in Europe
- **IBR cable** (6912 fibers) for a leading hyperscale company.

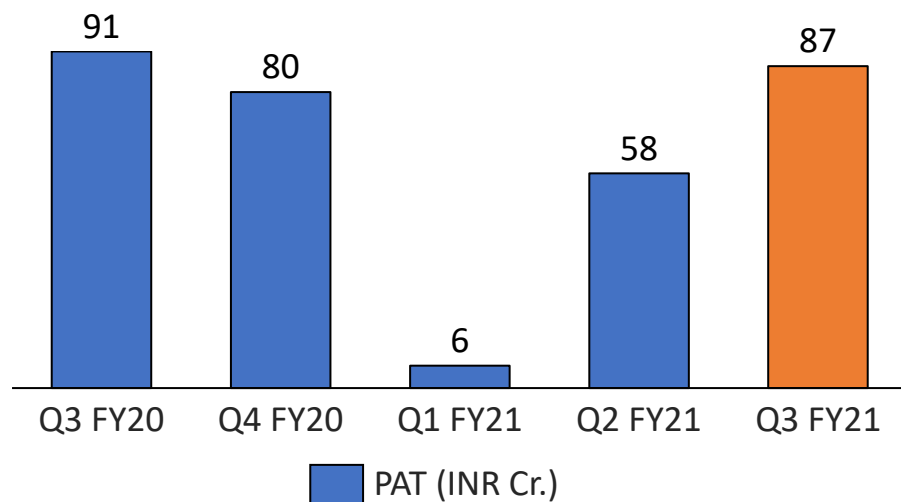
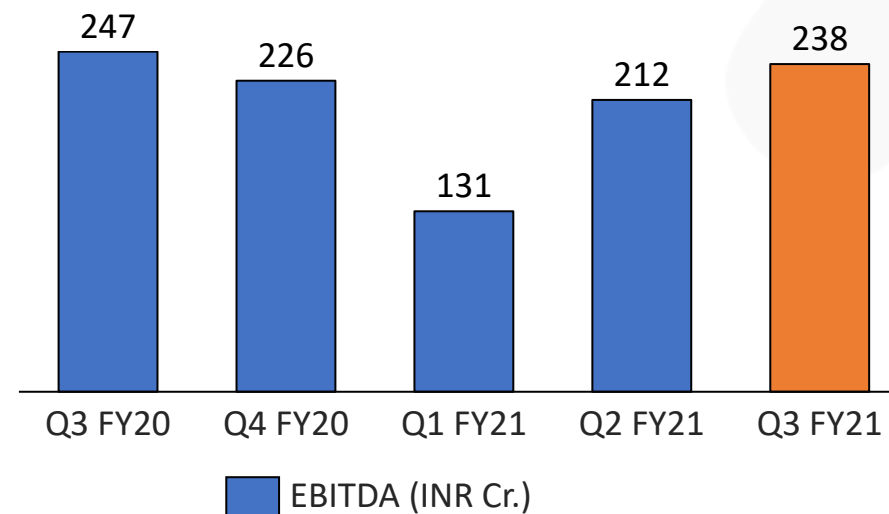
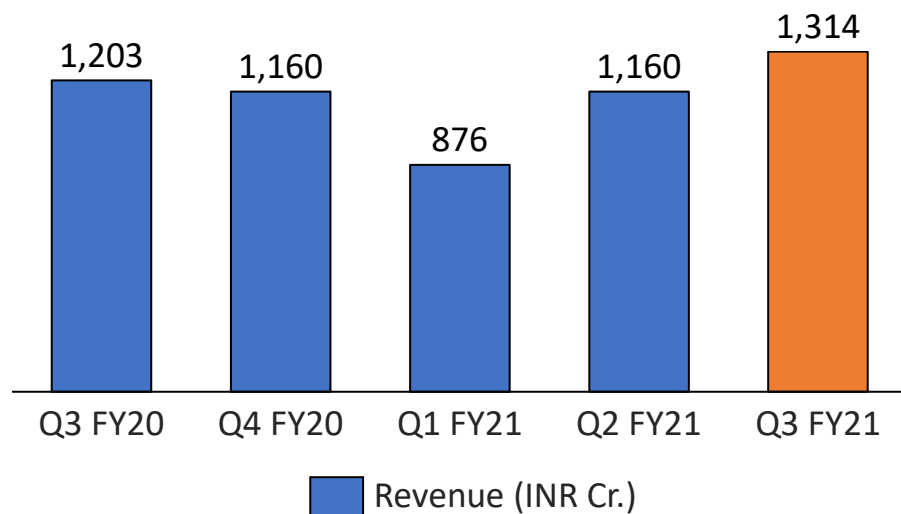
Customer Segments Revenues (Rs. Cr.)



Geographical Distribution Revenues (Rs. Cr.)



We have grown our revenues in Q3 on QoQ by 13% and YoY by 9%



- **Capacity utilizations are at all time high** and will see further improvement going forward.
- **Execution on the ground** for services also **continues to improve** on Q-o-Q basis.
- Inline with earlier expectation, we maintain that we shall **continue to grow in Q4** on Q-o-Q basis and **H2FY21 shall be better than H2 FY20**

Financials: Abridged Version



P&L (INR Cr.)	Q1 FY21	Q2 FY21	Q3 FY21	Growth Q-o-Q (%)
Revenue	876	1,160	1,314	13%
EBIDTA	131	212	238	12%
<i>EBITDA %</i>	15%	18%	18%	
Depreciation	74	82	68	
EBIT	57	130	169	30%
Interest	50	50	50	
Exceptional Item	-			
PBT	7	80	120	
Tax	4	24	33	
Net Income (After Minority Interest)	6	58	87	48%

We are on track to deliver our Vision 2023

We shall double our revenue & reduce net debt/equity to half while maintaining RoCE >20%



Growth

Revenue : Rs. 10,000 Cr.

Planning to grow on QoQ basis till 2023

Capital Structure

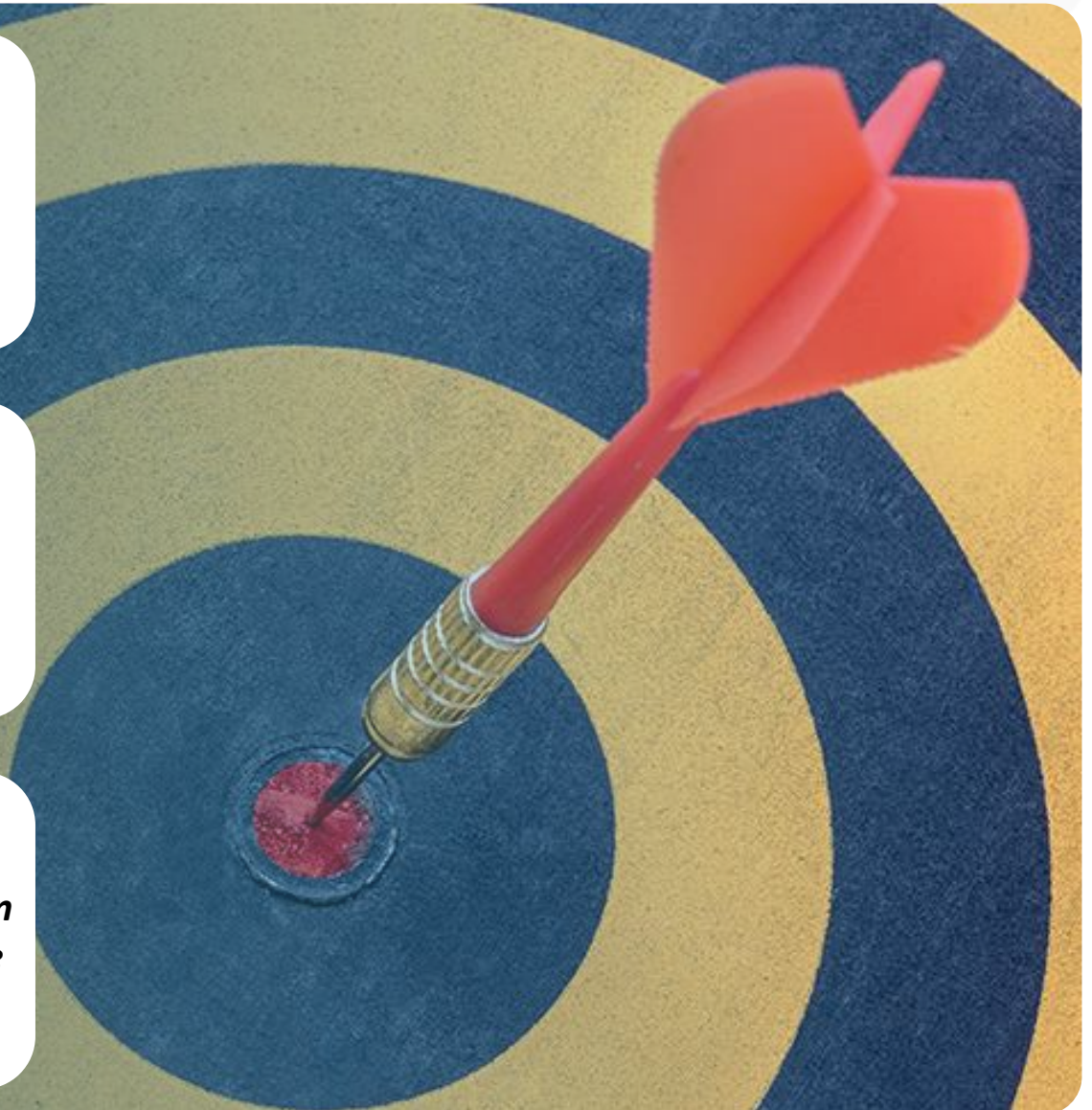
Net debt/equity < 0.5

Net debt/equity shall start to trend downwards from the second half of FY22

Returns

RoCE >20%

To generate sustainable RoCE > 20%, we have taken a conscious call to increase R&D investments while maintaining an ebitda margin of 18% to 20%.



Annexure



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STL Unique Value
Proposition

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Q3 FY21
Updates

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STL
Financials

Annexure

Strong corporate governance



Independent Directors on the Board of STL



Kumud Srinivasan

(Non-Executive & Independent Director)

- VP and Director of Non-Volatile Fab Manufacturing and Automation Systems at Intel Corporation
- Has spent 30 years at Intel in US, leading multiple global functions, prominent ones being R&D for technology manufacturing, industrial automation and IoT for manufacturing facilities
- She served as the President of Intel India from 2012 to 2016



Sandip Das

(Non-Executive & Independent Director)

- One of Asia's most respected telecommunications professionals and an acclaimed Chief Executive
- Ex-MD of Reliance Jio, Group-CEO, Maxis Communications and Hutchison Essar Telecom (now Vodafone), India
- One of the founding members of private telephony in India and was part of the group of individuals that founded Hutchison Max Telecom in 1994



S. Madhavan

(Non-Executive & Independent Director)

- Fellow member of institute of chartered accountants of India
- Holds directorial positions in top listed companies like HCL technologies, ICICI Bank, UFO Moviez and Transport Corporation of India
- Had set up a successful indirect tax practice, which got merged with PWC.
- Held leadership positions for over 14 years at PWC and was instrumental a leading tax practice



B. J Arun

(Non-Executive & Independent Director)

- Founded and led multiple successful ventures in silicon valley including California Digital, a Linux-based HPC leader and Librato, a software company
- Ex CEO of July Systems - a location-based mobile management platform
- Currently the vice president of Tie global and remains dedicated to fostering entrepreneurship in technology community

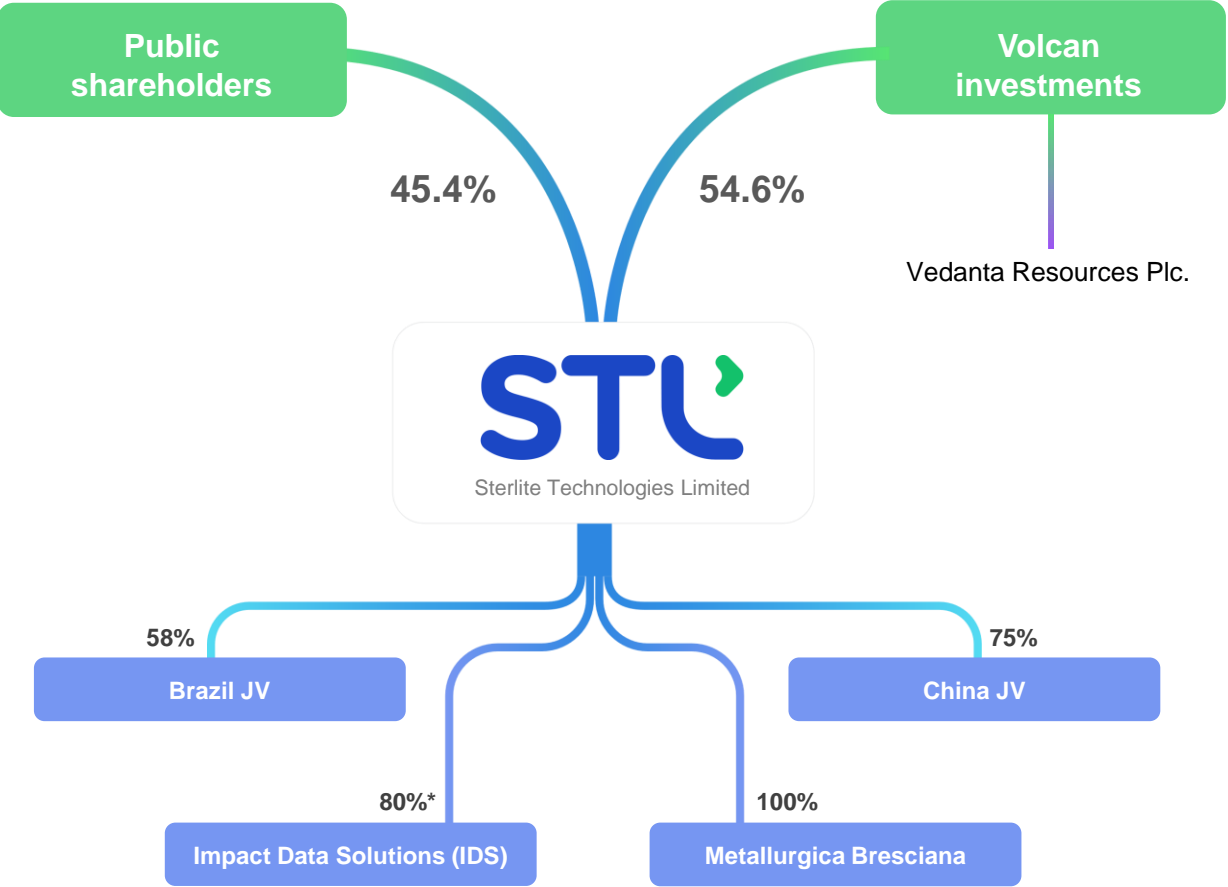
Corporate structure & shareholding pattern



Corporate structure

As on Dec 31st, 2020

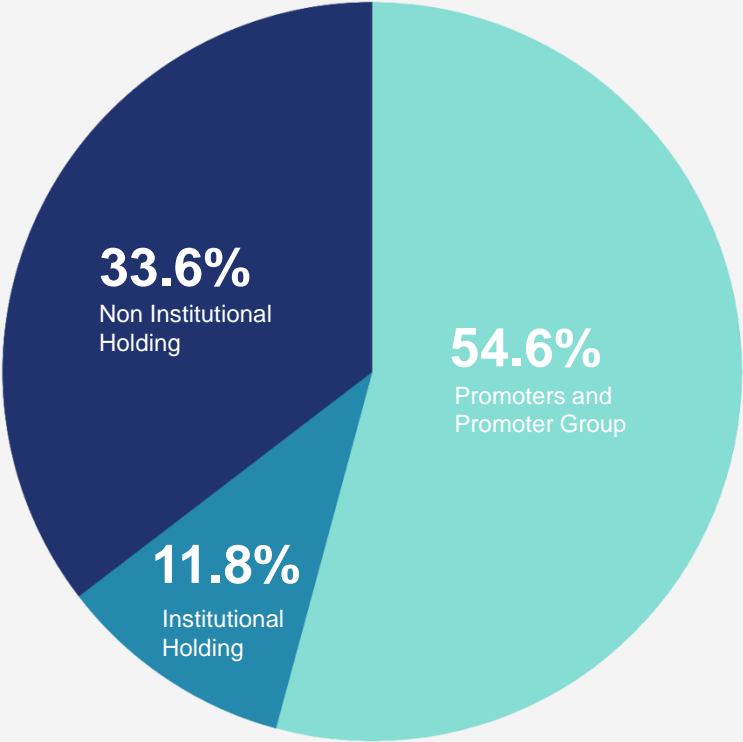
Only Subsidiaries that are material are disclosed



*Balance 20% will be acquired based on an earn-out model, over the next few years.

Shareholding pattern

Source: Company information; Karvy Shareholding Services; Data as of Dec 31st, 2020



Our Values



hunger to
learn



keep it
simple



promises
delivered



respect &
empathise



**DR. ANAND
AGARWAL**

Group CEO And Whole-Time
Director

Dr. Anand Agarwal is the Group CEO of STL and is passionate about driving technological advancement to impact everyday lives. Recognising the exponential growth in data consumption and shifts in the global technology landscape, Anand has navigated STL from an optical connectivity company to a global leader in end-to-end data network solutions.

Anand is driving STL as an industry leading integrator of data networks with core capabilities in optical connectivity, radio engineering and networking software. Anand was honoured with the prestigious 'Broadband Infrastructure Leader Award' in 2016 and "Pathbreaker of the Year" in 2019 for transforming India's digital infrastructure at the Telecom Leadership Forum.

A PhD in Materials Engineering from Rensselaer Polytechnic Institute and B.Tech from IIT Kanpur, Anand is a hands-on technologist on advanced photonics and programmable networks. He is a firm believer in empowering and transforming lives through innovations in technology.



[@anandagarwal2](#)



[@anand1agarwal](#)

Led by an executive team with extensive experiences



ANKIT AGARWAL

CEO, Connectivity Solutions
Business



KS RAO

CEO, Network Services and
Software Business



MIHIR MODI

Chief Financial Officer



DR. BADRI GOMATAM

Group Chief Technology
Officer



GAURAV BASRA

Chief Strategy Officer



ANJALI BYCE

Chief Human Resources
Officer



MANISH SINHA

Chief Marketing Officer



SANDEEP GIROTRA

Global Sales Head



AKANKSHA SHARMA

Head CSR And Sustainability

Thank You



beyond tomorrow