STU

Optical Connectivity
The backbone of
future digital networks
14th June '2021



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STL Introduction

2021 - Start of a decade of network creation

STL - well poised to lead

3 STL - future growth levers

Summary

Core Business

We Integrate Digital Networks STU for Our Customers

Customer Segments



Telcos



Cloud Companies



Citizen Networks



Large Enterprises

End-to-End Solutions opticonn

Optical Connectivity



Fibre Deployment



FTTx Access Network



Network Modernisation

Portfolio Offerings

Unique Capabilities



Optical Interconnect Products

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



Virtualised Access Products

Programmable FTTx

RAN Intelligent Controller

Network Orchestrator

Virtualised RAN



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

This expertise has translated into robust performance



\$ 661 Mn.

FY21 REVENUE

18%

FY21 EBITDA %

19%

Q4 FY21 RoCE *

7

GLOBAL PRODUCTION FACILITIES

2

SOFTWARE DEVELOPMENT CENTRES

INDIA & UK

SYSTEM INTEGRATION SERVICES



4

INNOVATION CENTRES

Aurangabad, Silvassa, Gurgaon, Ahmedabad 569

PATENTS

Across the network layers

Zero

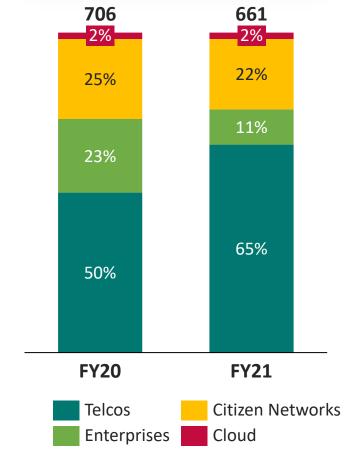
WASTE TO LANDFILL Shendra, Rakholi, Dadra 30+

NATIONALITIES ~3,100 Employees

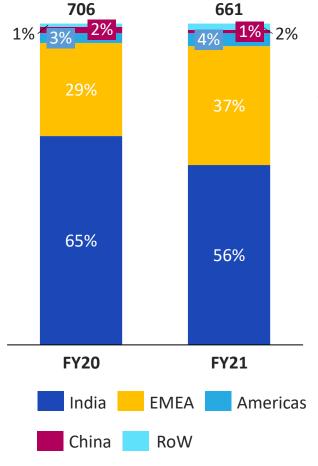
And also enabled us to serve across all segments







Geographical DistributionRevenues (USD Mn.)



We have a strong and growing revenue share from European market particularly UK, France and Italy.

Our key customers in Europe include BT,
Openreach, Orange and Telecom Italia

Grown organically & inorganically in last 5 years



Organic Capacity Expansion

Inorganic Expansion

From 12 to 50 mn. fkm
OPTICAL FIBER

From 6 to 33 mn. fkm

OPTICAL FIBER CABLE

Elitecore

SOFTWARE



MARKET ACCESS IN EUROPE



DATA CENTRE SERVICES



ASOCS®
On-premise mobile clouds

WIRELESS

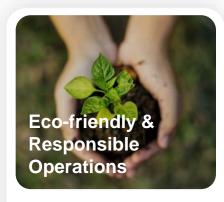


OPTICAL INTERCONNECT

While creating value across communities



Environment | Social | Governance



Caring for our people & the environment

Policies & Systems

on Human Rights, Labour Practises, Fair Wages



 $1M+ m^3$

Water recycled and reused at STL and replenished in surrounding communities

7,000+ tCO2e

Reduced through in-plant initiatives and plantations in surrounding communities



Enabling millions using tech & connectivity

1.43M+

lives impacted

Signatory

To the UNGC & UN WEP**

3,500+

Rural women Empowered

1,400+

Individuals digitally empowered



Driving Sustainability

134,000+ MT

Waste diverted from landfills

94%

of our industrial waste does not go into landfill

93%

Of waste recycled and reused

3R

Approach to reduce, reuse, recycle



2030: Towards a Cleaner & Greener Future

100%

- Manufacturing locations to be ZWL certified
- Water Positivity globally
- · Sustainable Sourcing
- Products families covered under LCAs

50%

Reduction in STL's carbon footprint



2025: Facilitating a More Inclusive Society

5 Million

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



STL Introduction 2021 - Start of a decade of network creation

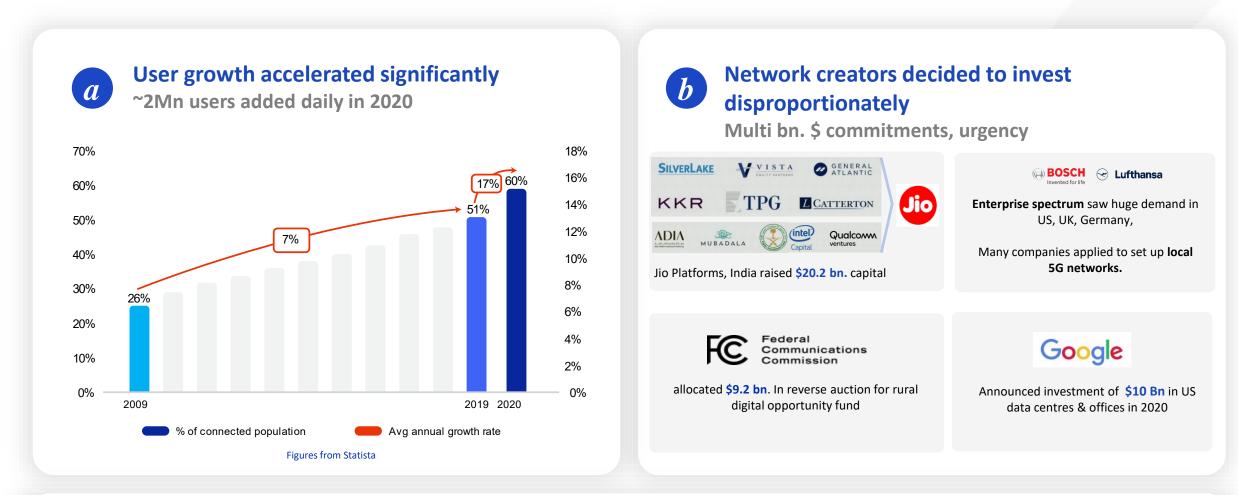
STL - well poised to lead

STL - future growth levers

Summary

2020 was a year of inflection for digital networks





2021 has kickstarted a decade long network creation cycle

New technologies are driving this network creation cycle



5G

the fastest technology to reach 400 million

- Over 163 5G commercial networks deployed globally
- Operators add Capex globally AT&T and Verizon increased their capex plan by \$2+ bn. (initial guidance of ~\$17 bn.)
- 630 5G enabled handsets announced globally as per GSMA

FTTH

Deployments pick up pace across India, Europe & US.

- EU Telcos plan 2+ mm FTTH
 Deutsche Telekom plans 2 mn. new
 FTTH connections in 2021; Telefonica
 Germany plans 2.2 million rural FTTH connections over six years.
- India budgets \$. 1.9 bn.
 0.65 mn. FTTH connections in FY22,
 6.7 kms of OFC, 0.12 mn. Wi-fi points
- US: AT&T plans 3 mn. FTTP
 Deploy fiber-to-the-premises to
 3+ mn. residential and business
 locations across 90 metros in 2021.

O-RAN

Major operators start trials or deployments

- Verizon to start deploying
 "We're 100% behind the idea, and that's why we're pushing it," Verizon's Kyle Malady
- Telefonica, IBM start trial open RAN in Argentina.
- Operators partner for O-RAN
 - Etisalat partner with Rakuten
 - Deutsche Telekom, Orange,
 Telefónica, and Vodafone join
 forces to support ORAN rollout
- **Germany earmarks \$300 mn**. for O-RAN research specifically.

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5G

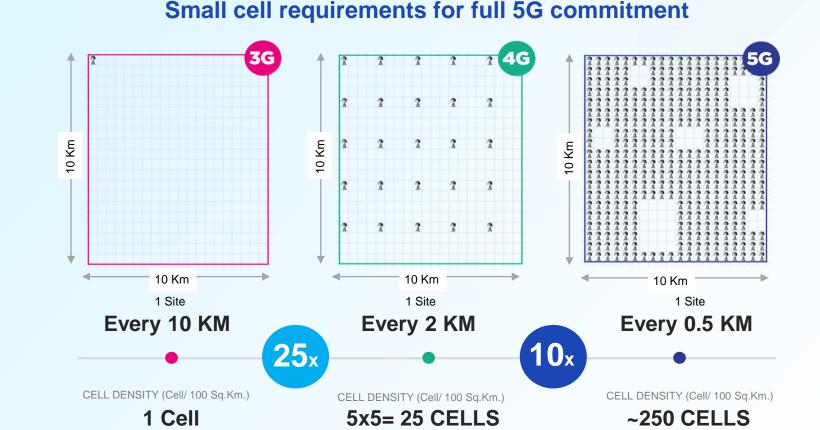
Leading to dense and deep fiberisation



Operators per site in shared microsites

30% - 60%

YoY Growth rate of urban small cells



Amount of cell towers to accommodate full 5G services

Demand of Optical Fibre to roll out 5G

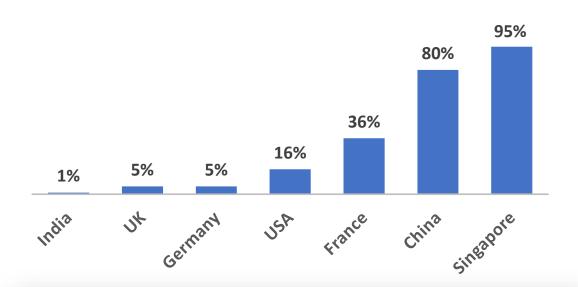
Dense & Deep Fiberisation







FTTH Penetration



- Developed Economies e.g. US, UK, Germany planning to increase FTTH Penetration.
- Developing economies e.g. India offer huge potential for growth, driving fiber demand.

Case in Point

UK

- UK Govt. is investing £ 5bn for FTTH gigabit network
- BT Openreach targets covering 25 mn. premises by 2026
- City Fibre increases roll out plan to pass 8 mn. premises

USA

- Strong federal push for increasing broadband penetration \$20 bn. rural digital opportunity fund \$100 bn. proposal for broadband in LIFT plan \$25 to 30 bn. grant under CARES ACT
- US private players plan multi million home passes.

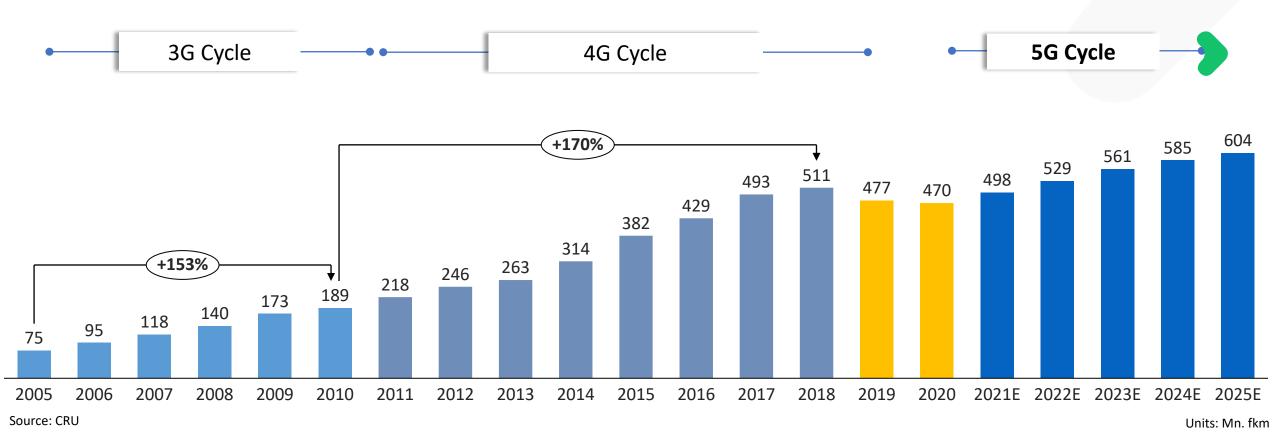
 AT&T: 4 mn., Verizon: 3 mn. and Lumen: 6.5 mn.

FTTH Penetration = No. of households that have taken up fiber broadband connection / Total no. of households

5G & FTTH

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These mega trends are catapulting the optical demand



- After a pause in 2019 & 2020, the fibre demand has started growing again in 2021, which is visible across all regions
 - 5G deployment cycle is an 8 to 10 year cycle; expected to peak in 2024-25
- Higher sales orders, increasing inventory drawdowns and widening lead times shall push the optical prices upwards

Spurring innovation across optical portfolios



Requirements

Optical fibre

Bend insensitivity, Compatibility & optimise duct space

Need high fibre count with minimum new duct installation

Product Innovation



- Bend insensitive with 10x reduced macro bend loss
- Fully Compatible with legacy fibre



- 100% existing duct capacity augmentation
- Better TCO with one time deployment

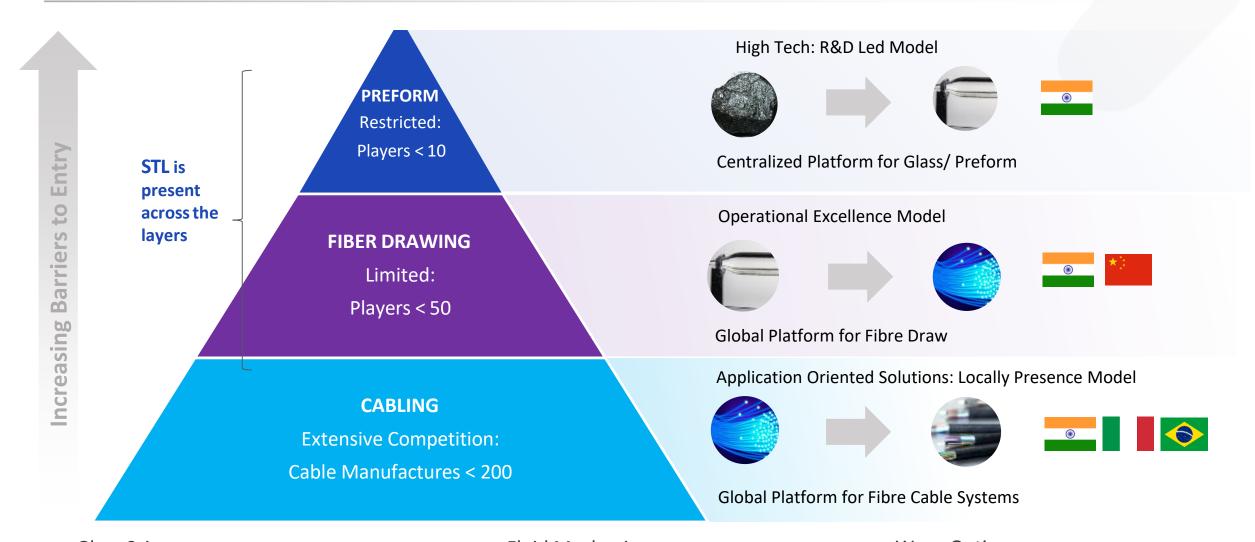
Cable

Optical fibre

15

Advanced photonics capability will prove to be the differentiator





- Glass Science
- Chemical Engineering

- Fluid Mechanics
- Large scale Automation

- Wave Optics
- High Temp processing ~ 2000 deg C



The future digital networks has 4 unique characteristics



Close to the Edge

EDGE

Seamless Wired & Wireless

CONVERGED

Enhanced Experience

COMPUTE

Agile, Scalable, Agnostic **DISAGGREGATED**

At the Edge

Optical

&

Radio

Connectivity

Hardware

&

Compute

&

Software

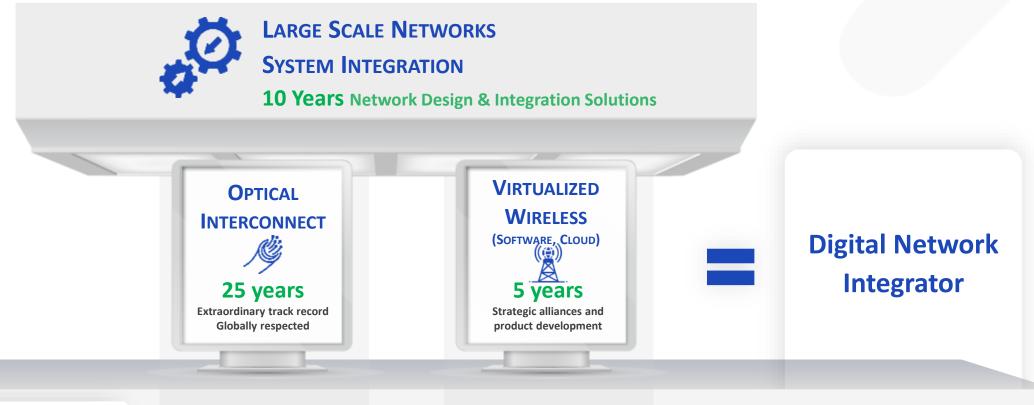
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STU

Who can
Integrate all
these
Technologies?

STL has an E2E capability to integrate future digital networks



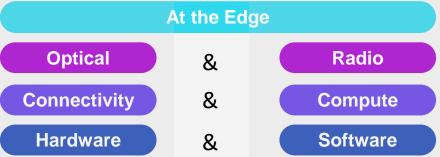


Close to the Edge
EDGE

Seamless Wired & Wireless
CONVERGED

Enhanced Experience
COMPUTE

Agile, Scalable, Agnostic
DISAGGREGATED



straintegrate all the technologies required for the new age digital network

1. 25 years of optical connectivity





End 2 End
Optical Connectivity
Solution



Fully Vertically Integrated Manufacturing



Strong relationships with 21 key accounts

openreach orange™



🥏 airtel



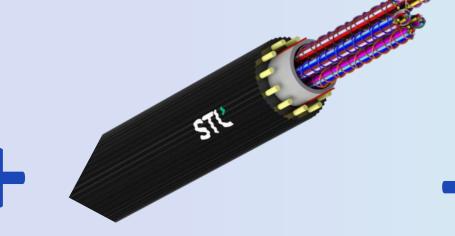
Strong Inhouse R&D team with 569 patents

Opticonn: End to End Optical connectivity Solution











Backward Compatible Bend Insensitive Fibre

High Density Ribbon Cable Intelligently Bonded Ribbon (72F - 6912F)

Underground and Aerial Optical Interconnect Kits



25% faster deployment of future proof bend resilient network

opticonn

Our opticonn solution includes customising solution through consultative design and also includes optical subsystems, smart logistics and partner support.



Higher density network - 100% existing duct capacity augmentation

Aurangabad

India

Fully integrated manufacturing with global supply chain



Optical Fibre



Jiangsu Sterlite
Tongguang Fibre Co.
Limited
Haimen-City
China



Metallurgica Bresciana Dello Italy

Optical Fibre Cable



Speciality Cable





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

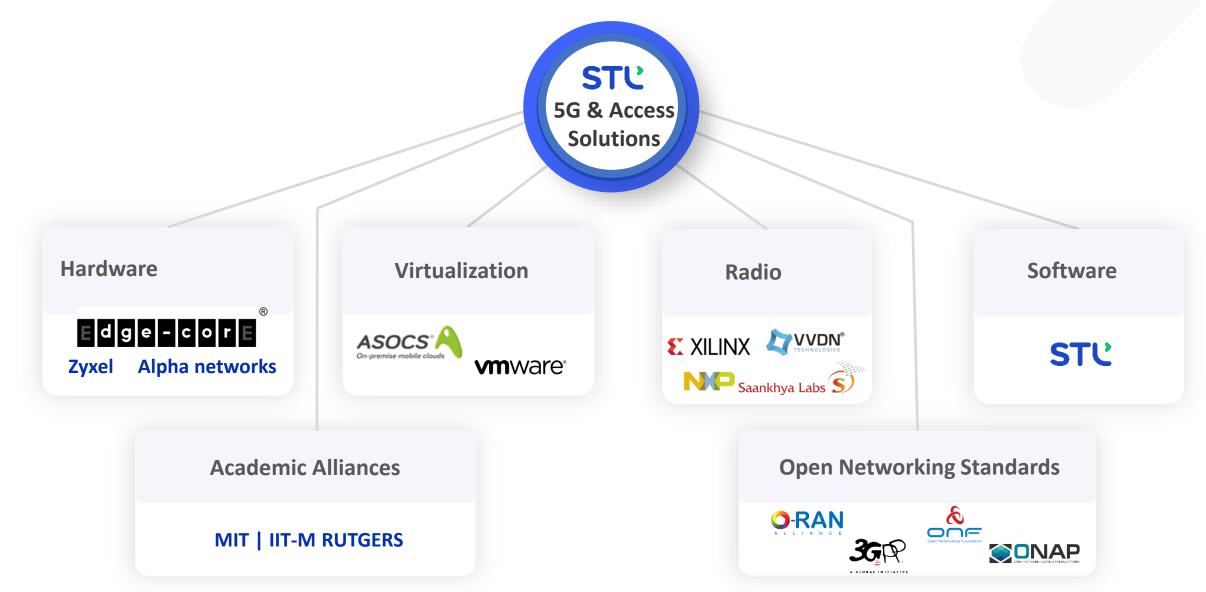
Efficient supply chain

Reduced delivery times and SCM cost

* Plan to reach by Jun 2021

2. Virtualised access ecosystem





3. Large-scale integration expertise



End 2 End Solutions



Network Modernization



Fibre Deployment



Key Projects



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

Completed Project



\$500 mn multiyear project across 1600 sites to design, execute, O&M for the Indian Navy Ongoing Project



Using LEAD 360 [™] approach to connect 7.5 mn people and 4,045 villages in Maharashtra
Ongoing Project



Using **LEAD 360** [™] to build modern optical network in **10 circles in India** for a large Telco Ongoing Project

Through E2E solutions, STL can address \$40 bn. market





~ \$18-20 B



Virtualised Access

Network Software

~ \$15 B



System Integration Services

~ \$7B

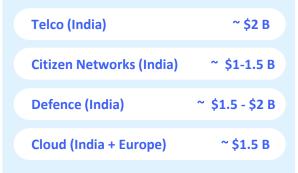


Optical Fibre Cable ~ \$7 - 8 B

Optical Interconnect Kits ~ \$10 - 12 B

Open & Virtualised RAN
Small cells ~ \$5 -6 B

Network Software ~ \$10-11 B





STL Introduction 2021 - Start of a decade of network creation

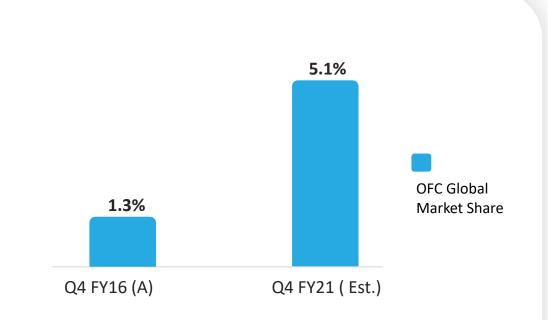
STL - well poised to lead

STL - future growth levers

Summary

1. Grow OFC Volume and Optical Interconnect business





- Grew market share 4 times in 5 years
- In FY21, OFC volume grew by 35%
- Continue to penetrate newer markets e.g. USA





- Expand optical interconnect business by leveraging existing customer relationships
- Offer Optotec products integrated as Opticonn Solutions

2. Take System Integration business global & Scale in India





Long haul network roll out in India



FY17-18



Network modernisation at Nationwide scale



FY19-20



Design & deploy fibre network in metropolitan cities



Datacentre Solutions
Inside datacentre connectivity



FY20-21

TAKE
GLOBAL
PROJECTS
&
SCALE in
INDIA

FY22-Onwards

3. Build a strong Access Solutions business, based on disruptive open-source products









Building a World class team

Leverage a team of exceptional professionals and ecosystem partnerships to develop network solutions.

Current team strength at 200 nos.

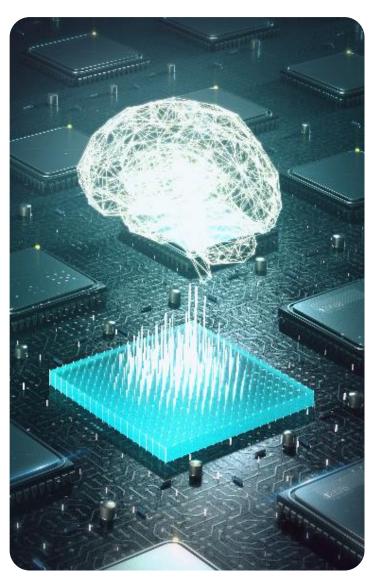
Product of Choice for large Scale O-RAN Deployments

To become a product of choice in 5G networks based on Open RAN technology.

Product trials being conducted at customer premises.

Summary





2021 - Start of a decade of network creation

New technologies such as 5G, FTTH and O-RAN are driving the network creation cycle. 5G deployment & increase in FTTH penetration are leading to deep and dense fiberisation. These deployments are catapulting the OFC demand across the globe and are also leading to innovative new products in optical fiber & optical fiber cable.

STL is well poised to lead network efforts across globe

It has 25 years of experience in optical connectivity, an ecosystem in virtualized access technologies and an expertise in integrating large scale complex projects. Put together, STL has end to end capability to integrate future digital networks.

STL has three validated growth levers

First, to grow OFC volume and the Optical interconnect business.

Second, to take System Integration business to global markets along with scaling it in India.

Third, to build a strong Access Solutions business, based on disruptive open-source products.



With Strong legacy and Capabilities







1995

Optical Fibre Plant In Aurangabad



2012

Manufacturing set up in China



2014

Optical Fibre Centre of Excellence



2017

Centre for Smarter Networks



2019

Semiconductor Grade Industry 4.0 Glass Plant



European Data
Centre Services
IDS Acquisition



Community Memberships for Programmable Networks





Optical Fibre Cable Plant in Silvassa



Data Cable in Dadra

2004



Manufacturing set up in Brazil



2013



Telecom Software Acquisition

2015



Acquisition of Metallurgica Bresciana s.p.a., Italy



vRAN Investment in ASOCS



5G Virtualization and 5G Radio Partnership



Acquisition of Optical Interconnect Company Optotec S.p.A Italy

2

2018

2020

About the Speaker



Dr. Anand Agarwal Group CEO and Whole time director, STL



A strong believer in the transformational power of technology, Dr. Anand Agarwal is the Group CEO and Whole-time Director at STL.

Recognising the shifts in the global technology landscape, Anand has navigated STL from an optical connectivity company to a global leader in end-to-end network solutions. With his disruptive efforts, Anand has scaled the organisation to over 100 geographies, while shaping the digital infrastructure landscape globally. Under his leadership, STL has developed core capabilities in optical connectivity, virtualised radio, network software, and system integration.

Anand was awarded as the 'Most Promising Business Leaders of Asia' by Economic Times at Asian Business Leaders Conclave 2020 and 'CEO of the Year' at the Economic Times Digital Telco Summit in 2020 for his significant contribution to the Indian Telecom ecosystem. He was also awarded with "Pathbreaker of the Year' ' award in 2019 for transforming India's digital infrastructure at the Telecom Leadership Forum and "Broadband Infrastructure Leader Award' in 2016.

As a flagbearer of culture and diversity, he has built a passionate and inclusive organisation that is strongly connected to its larger purpose of transforming billions of lives through digital networks.

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