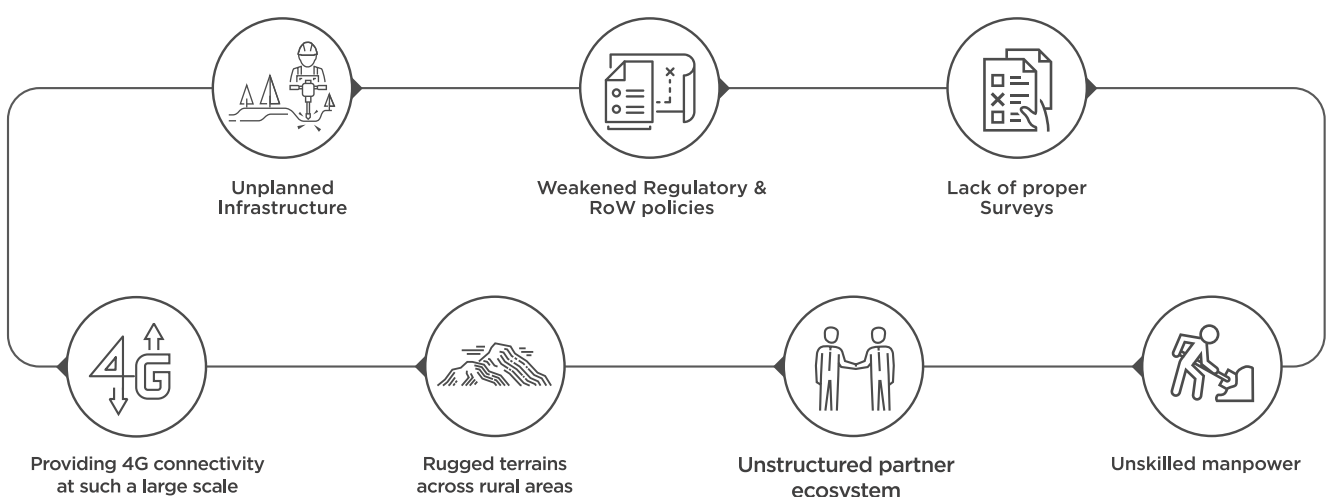# STL

Democratising high speed data in India

PROJECT BACKGROUND

A telecom market disruptor was looking to build a deeply fiberized network and create world's first exabyte network in India for launching 4G services. STL was selected as a partner of choice for rolling out fibre network in three major Indian states Madhya Pradesh, Maharashtra, and Odisha with a combined fibre km of 25,000. STL not only solved the fibre deployment challenges for the telecom player but also laid a strong foundation for future technologies like SG, Big data, and Industry 4.0.

CHALLENGES THAT WE FACED (AND MITIGATED)

Unplanned Infrastructure

Weakened Regulatory & RoW policies

Lack of proper Surveys

Providing 4G connectivity at such a large scale

Rugged terrains across rural areas

Unstructured partner ecosystem

Unskilled manpower

STL SOLUTION **TO DELIVER EXCELLENCE**

STL enabled the biggest market disruptor to achieve desired scale and customer experience through its hyper scale network modernization powered by Fibre Automation Services (previously known as LEAD 360°) approach. We mapped an intelligent network design for rolling out fibre at such a large scale. The solution addressed a myriad of challenges in fibre deployment through design innovation, digital governance and survey techniques to ensure faster and quality project execution for building the *Networks of Tomorrow*.

Our 7 stage gate approach
delivers the ultimate efficiency in fibre deployment

1 **Modernise survey data**
collection through 360 photogrammetry survey using Camera, Drone, and LiDAR

2 **GIS database for visualization**
and integration of identified demand points

3 **Design network topologies**
ring, linear, mesh, star

4 **Integrate network architecture**
comprising backhaul, access, and sub-access (centralized, point-to-point, decentralised)

5 **Generate BoQ and BoS**
based on the defined BoM and designed network

6 **Automated dashboards**
integrated analytical tools achieve faster decision -making, effective governance, quality control.

7 **Achieve Overall Equipment Effectiveness**
Introduce OEE and modeling into an unstructured and dynamic environment for fibre deployment (trenching, drilling, ducting, and cabling).

IMPACT **DELIVERED**

2X
Faster roll-outs to enable faster launch readiness

Intelligent & flawless
execution of the process

4X
Reduction in fibre cuts leading to optimized OpEx and CapEx

5G
Readiness for a 4G network today and 5G network for the future

Disclaimer: Numbers based on STL project data. These numbers might vary according to the project deliverables and scope