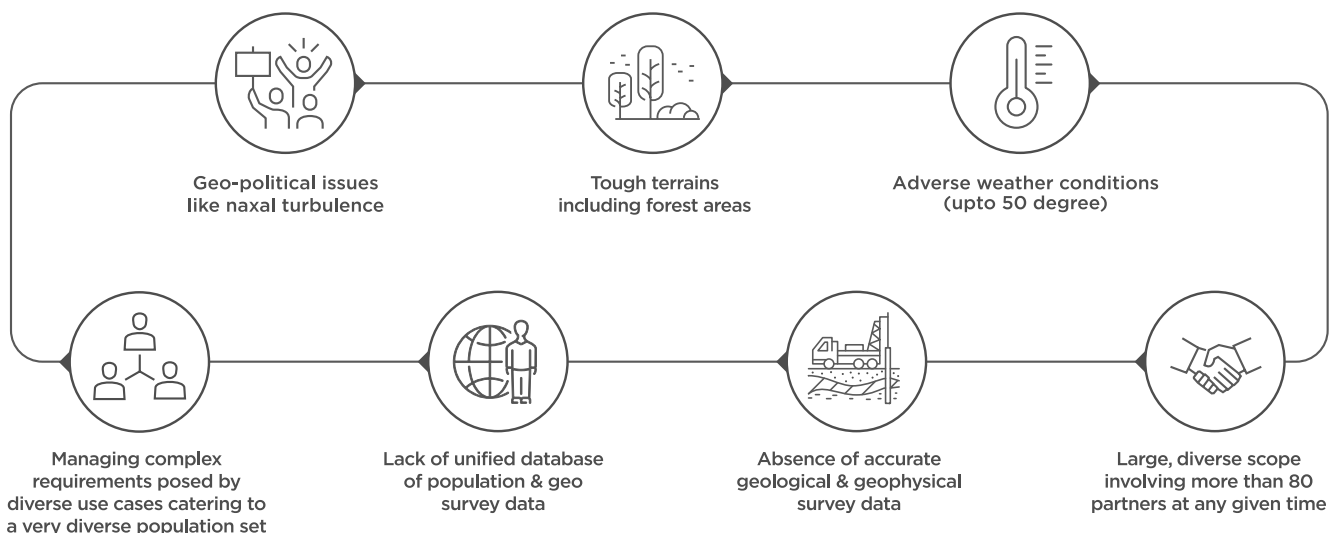# STĽ

Implementing one of the largest rural connectivity programs in India

PROJECT BACKGROUND

The customer, the state of Maharashtra in India (one of the largest in India with a population of about 110M) was planning to digitally connect about 4,000 Gram Panchayats (the lowest governance unit of the government) with their respective administrative heads. This involved a geographical spread of about 18,700 sq. kms. The customer was looking for a data network solutions provider who could design a network of this scale keeping in mind current and future needs involving use cases like e-health, e-governance, education, transportation and utilities.

CHALLENGES THAT WE FACED (AND MITIGATED)

Designing a network of such scale came with several unique challenges. Most prominent among those were

Geo-political issues like naxal turbulence

Tough terrains including forest areas

Adverse weather conditions (upto 50 degree)

Managing complex requirements posed by diverse use cases catering to a very diverse population set

Lack of unified database of population & geo survey data

Absence of accurate geological & geophysical survey data

Large, diverse scope involving more than 80 partners at any given time

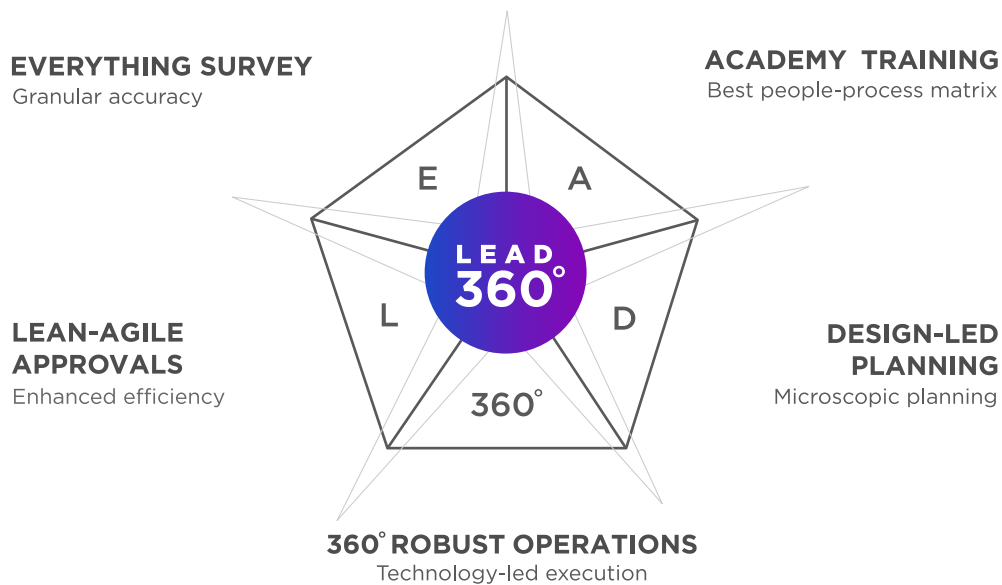# STL SOLUTION TO DELIVER EXCELLENCE

STL enabled digital inclusion in Maharashtra through its hyper scale network modernization powered by LEAD 360° approach. STL deep-dived into challenges associated with the fibre roll out process and addressed them through design-thinking and innovation at all the steps.

STL's unique LEAD 360° approach unified the potential of highly orchestrated fibre roll out, high density 5G ready fibre solutions, and are future-ready software-defined network design

- Model project for handling complex RoW scenarios
- Extensive soil-strata analysis and data-basing
- Technology-led granular & accurate surveys with techniques like 360° photogrammetry
- Highly mechanised operations with the use of augurs and specially designed trenchers
- Ensuring continuity and quality by adopting *1 Taluka-1 Partner strategy*

STL LEAD 360°
Our transformative approach to hyper scale fibre roll outs

EVERYTHING SURVEY
Granular accuracy

ACADEMY TRAINING
Best people-process matrix

LEAN-AGILE APPROVALS
Enhanced efficiency

DESIGN-LED PLANNING
Microscopic planning

360° ROBUST OPERATIONS
Technology-led execution

E   A

LEAD 360°

L   D

360°

IMPACT DELIVERED

First-ever
Bharatnet Project to use MPLS design with an expedited implementation plan

1750 Kms
Peak T&D levels recorded in a month

17 million
Citizens connected

Robust connectivity
E-health
E-governance
E-education

A whopping 500
Machines working simultaneously