



Sutherland's Fiber Engineering & Design Capabilities

Launch faster and scale smarter with end-to-end orchestration, AI, and automation

Who Are We?

For 38+ years, Sutherland has partnered with global enterprises to deliver outcomes that scale. We combine **human insight with AI-powered intelligence** to transform operations into measurable business results.

Our telecom-focused capabilities span **Network Engineering Services**, including AN-level assessments, agentic NOC solutions, AI-enabled private 5G, and fiber engineering and design. Together with our CX, BPaaS, Network, and Digital Engineering Services, we help **Telcos modernize** operations, improve network performance, and reduce cost-to-serve—at speed and at scale.

Sutherland's Integrated Approach: Simplifying the Fiber Journey

Streamlining the fiber lifecycle with data-driven orchestration and AI

- 40K+ Experts across domains and technologies
- 144 Countries operational
- 50% Fortune 500 firms served
- 70 Delivery offices worldwide
- 200+ Clients across 11 industries
- 363 Unique inventions under several patents



Stage 1: MARKET ANALYSIS AND FEASIBILITY

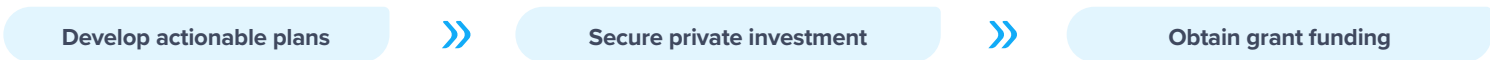
Mapping the opportunity to ensure financial success



Key deliverables: Market opportunity reports, competitive landscape analysis, financial feasibility studies, go/no-go recommendations

Stage 2: BUSINESS PLANNING AND FUNDING

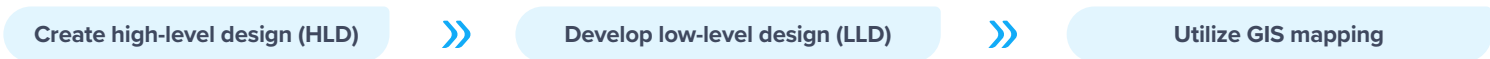
Turning data into investment-ready business models



Key deliverables: Detailed business plans, investment pitch decks, grant applications, funding strategy roadmaps

Stage 3: NETWORK DESIGN AND ENGINEERING

Architecting build-ready blueprints with GIS precision



Key deliverables: HLD documents, LLD engineering packages, GIS-ready build blueprints, material BOMs, splice schematics

Stage 4: PERMITTING AND PRE-CONSTRUCTION

Clearing the path for deployment with rights and imaging

Obtain necessary permits



Acquire rights-of-way



Conduct LiDAR imaging

Key deliverables: Permit packages, row agreements, easement documentation, lidar survey data, make-ready assessments

Stage 5: NETWORK CONSTRUCTION AND MANAGEMENT

Scaling deployment through managed partner networks

Oversee physical deployment



Manage trusted partners



Implement program management

Key deliverables: Construction progress reports, quality inspection reports, as-built documentation, budget tracking dashboards

Stage 6: NETWORK ACTIVATION AND SERVICE LAUNCH

Bridging the gap between infrastructure and live services

Integrate OSS and BSS systems



Accelerate activation with AI



Ensure seamless launch

Key deliverables: OSS/BSS integration, AI-powered provisioning, service activation workflows, go-live checklists, customer onboarding

Stage 7: OPERATIONS, SUPPORT, AND GROWTH

Maximizing uptime and scale with AI-driven intelligence

Manage 24/7 NOC



Utilize predictive analytics



Provide scalable customer support

Key deliverables: 24/7 NOC services, predictive maintenance, customer support, network analytics, performance optimization

Business Benefits Delivered

30-40%

Reduction in MTTR
reduction in design
cycle time

95%+

First-pass accuracy
rate

3x

Increase in throughput
capacity

50%

Reduction in rework
& errors

Contact us for high-accuracy fiber design and end-to-end network engineering.



Artificial Intelligence. Automation. Cloud Engineering. Advanced Analytics.
For Enterprises, these are key factors of success. For us, they're our core expertise.

We work with global iconic brands. We bring them a unique value proposition through market-leading technologies and business process excellence. At the heart of it all is Digital Engineering Services – the foundation that powers rapid innovation and scalable business transformation.

We've created 363 unique and independent inventions, 250 of which are AI-based and rolled up under several patent grants in critical technologies. Leveraging our advanced products and platforms, we drive digital transformation at scale, optimize critical business operations, reinvent experiences, and pioneer new solutions, all provided through a seamless "as-a-service" model.

For each company, we provide new keys for their businesses, the people they work with, and the customers they serve. With proven strategies and agile execution, we don't just enable change – we engineer digital outcomes.

