CGI Fibre Network Planning Capabilities for Telecoms

With UK Telecoms companies planning to invest billions of pounds in deployment of fibre, it is essential to do this as efficiently as possible, targeting the rollout to maximise revenue streams.

CGI has enabled clients to reduce rollout costs through reliable geographic inventory and data precision.

The challenge

Infrastructure providers are in a race to deploy fibre, and need to optimise both capital expenditure and operational costs.

Rolling out to the right areas is critical, particularly where other providers are active. Knowing what customers are there, and the specific challenges of the chosen location helps optimise costs. Many providers will be customer led, but more can often be done to ensure that other potential premises are made fibre ready as the initial rollout is done. Optimising from the start reduces the cost of subsequent sales.

Inventory systems are often a poor representation of the real world. A typical telecoms infrastructure provider will have built multiple inventories over time, and the data is often not maintained when field work is carried out. This makes planning difficult, as the inventory is not reliable enough for fully desk-based planning. Expensive surveys are needed each time a build is carried out.

Planners need to align logical inventories with actual survey data to accurately create reliable Bills of Materials to enable efficient delivery. By fully integrating the survey data into the inventory, planning tasks become more efficient, avoiding the cost of additional surveys.

In some territories, there are penalties for multiple digs of the same street area, making it even more important to get the inventory right.

We can combine planning with our order handing and jeopardy management to deliver a complete end-to-end service.
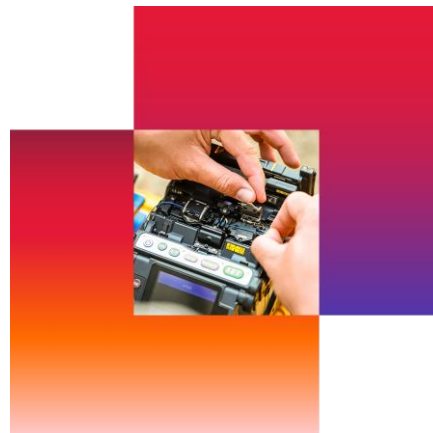
CGI in Telecoms

CGI has provided services to the Telecoms industry for over 30 years.

- We serve 6 of the top 10 Communication Service Providers globally
- We have over 5,000 industry experts across the globe helping clients drive profitable growth
- We have partnered with each of our top 10 clients for average of 26 years

Our expertise includes:

- Business consulting
- System integration
- Digital transformation
- IT Outsourcing – running and operating IT systems
- Business process outsourcing

We specialise in:

- Order handling and jeopardy management
- Payments and collections
- IoT solutions
- Fibre planning
- Hybrid network planning
- Robotic Process Automation
- Satellite communications
- 5G – private networks
- 5G – exploitation
- Cybersecurity

CGI Approach

We work with Geographical Information Systems (GIS) partners to provide reliable data solutions for planners and operators. We do this by starting with where you are, re-using the inventory systems you have today.

Our expert teams work with you to understand your workflows and the data you use, and optimise the data using an agile development approach. This means we deliver value fast, building on the capability you already have to deliver immediate improvements, while developing a roadmap to ensure we continue to deliver value for you over time.

Our data analysis and quality controls ensure we deliver data precision, making our solution reliable to use for business decisions.

Business benefits

We would typically expect to deliver a 10% CAPEX reduction by using accurately pre-built components and reducing on site waste. This is only possible with trustworthy inventory data.

We target a 20% OPEX reduction through reduced time on site, using connectorised fibre. By pre-building key components and delivering an accurate Bill Of Materials, work on site is reduced, making delivery faster for your customers as well as reducing your costs.

We help you to deliver improved ROI through rollout planning targeted at the right customer communities, increasing take-up of services. We achieve this using inventory data overlays to enable you do rapidly do "what-if" analyses to explore different options for delivering fibre.

For one of our North American clients, we were able to build an initial solution within 8 weeks, enabling them to make immediate improvements to the planning process. Over the past 5 years this has evolved to a comprehensive solution with over 2000 desk based users and a further 10,000 field workers using the mobile application to provide instant feedback on installations, ensuring the inventory remains accurate and representative.

Why CGI

CGI has provided services to the Telecoms industry for over 30 years, working closely with communications service providers to define and implement digital strategies and roadmaps to help you win customers in a highly competitive and regulated market.

CGI uses a client-proximity model ensuring local teams gain deep knowledge of our clients' businesses and industries and understand the UK market and cultural needs. It enables us to deliver innovative solutions proactively, and to grow alongside our clients.

CGI's global delivery network, with onshore, nearshore and offshore delivery centers support local teams in accelerating clients' transformation. We provide the best mix of services configured to clients' needs and preferences.

CGI delivered an initial solution within 8 weeks of the initial requirements, and have developed a comprehensive solution over the past 5 years.

About CGI

Founded in 1976, CGI is among the largest independent IT and business consulting services firms in the world.

We are insights-driven and outcomes-based to help accelerate returns on your investments. Across 21 industry sectors in 400 locations worldwide, our 90,000+ professionals provide comprehensive, scalable and sustainable IT and business consulting services that are informed globally and delivered locally.

For more information
Visit cgi.com/uk
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