

EP INFRA-NETWORKS LTD

Telecommunications Infrastructure Report

System:

Terrestrial Long-Haul Dark Fiber (G.652.D SMF)

Open Access Fiber: Nigeria's Ultra-High-Capacity Digital Backbone

1. THE TECHNOLOGY: PROTECTED TERRESTRIAL FIBER

We are deploying **High-Count Single-Mode Fiber** conduits within our protected rail rights-of-way. By burying fibre alongside rail infrastructure, we ensure the highest level of physical security and the easiest maintenance access in the country, significantly reducing the risk of "accidental cuts" common in road-side deployments.

2. KEY SPECIFICATIONS

- **Capacity:** Designed for Terabit-scale throughput to support 5G rollout, Cloud Computing, and AI data processing.
- **Latency:** Optimized "Straight-Line" routing between Lagos and Kano to provide the lowest millisecond latency for financial institutions and Tier-3 Data Centers.

- **Redundancy:** A "Ring Topology" architecture that ensures if one path is interrupted, data is instantly rerouted via an alternate leg of the Golden Triangle.

3. THE "OPEN ACCESS" BUSINESS MODEL

EP INFRA-NETWORKS does not compete with local Telcos; we **empower** them.

- **Wholesale Dark Fiber:** We lease individual fiber strands to Mobile Network Operators (MNOs) and ISPs who wish to manage their own lighting equipment.
- **Neutral Hosting:** Our "Smart Stations" serve as neutral carrier hotels where any provider can co-locate equipment to serve local communities.

4. SOLVING THE "BACKBONE" GAP

While most providers focus on city-level distribution, Nigeria suffers from a lack of reliable long-haul transit. By providing the "Digital Highway," we enable our partners to finally deliver high-speed internet to millions of underserved users located between the major hubs.