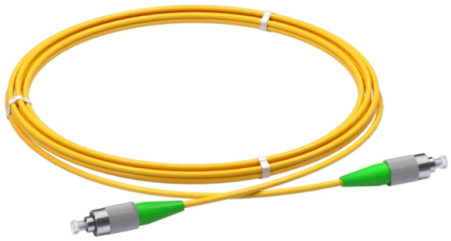
Nigerian Fiber Optic Communication



Overview

The project aims at extending the nation''s fibre-optic backbone by 90,000 km, positioning Nigeria to boast as Africa''s third-largest terrestrial fibre-optic infrastructure, upon completion.

Key Takeaways

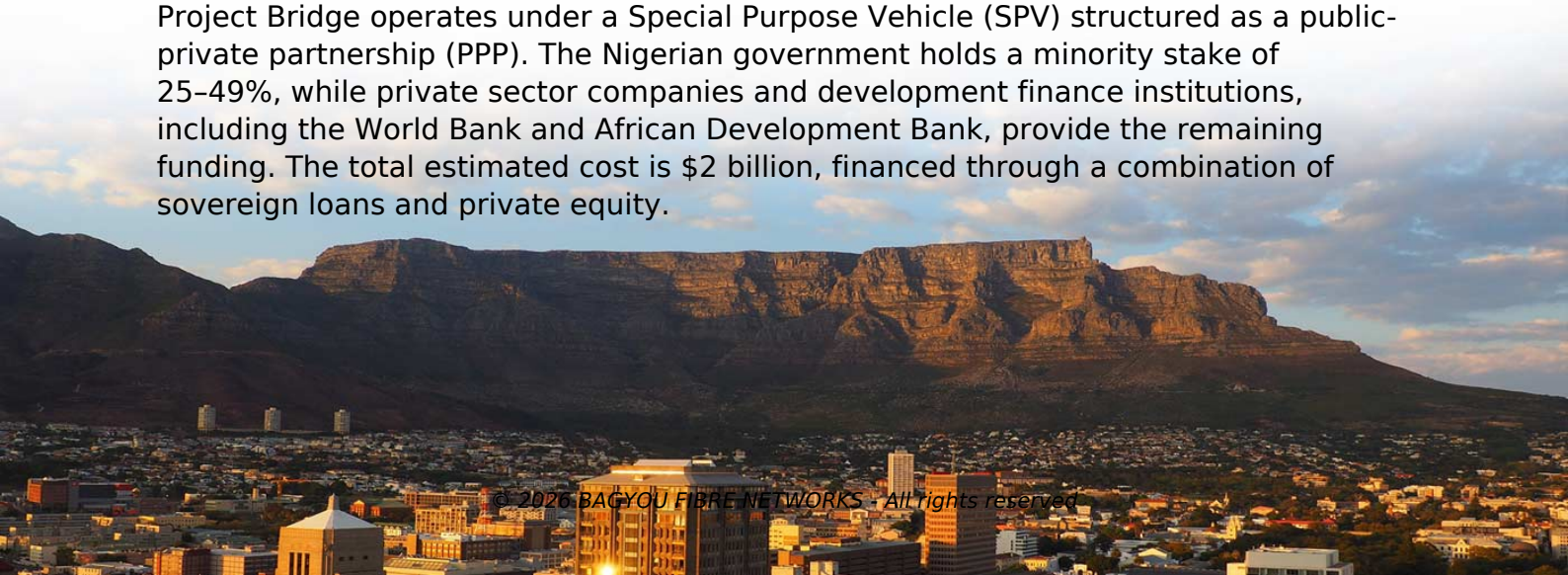
Nigeria is rapidly expanding its fiber optic network through Project Bridge, aiming to deploy 90,000 km of fiber to enhance nationwide connectivity and digital access.

Overview of Project Bridge

Project Bridge is a national initiative led by the Ministry of Communications, Innovation and Digital Economy to establish a robust fiber optic backbone across Nigeria. The project aims to deploy 90,000 kilometres of fiber optic cables, complementing the existing 35,000 km, to achieve a total of 125,000 km, making Nigeria's fiber network the third largest in Africa. The initiative is part of the National Broadband Plan (2020–2025), targeting 70% internet penetration by 2025 and 80% for underserved populations by 2027.

Implementation and Funding

Project Bridge operates under a Special Purpose Vehicle (SPV) structured as a public-private partnership (PPP). The Nigerian government holds a minority stake of 25–49%, while private sector companies and development finance institutions, including the World Bank and African Development Bank, provide the remaining funding. The total estimated cost is $2 billion, financed through a combination of sovereign loans and private equity.



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The SP

V is managed independently with a professional board and management team to ensure efficiency and accountability.

Objectives and Impact

The project is designed to: Expand broadband access to all 774 local government areas, schools, hospitals, and underserved communities. Boost internet speed and reliability, increasing penetration to over 70% nationwide. Create employment opportunities, with up to 20,000 direct jobs and 150,000 indirect jobs.

Stimulate Nigeria's digital economy, potentially increasing GDP by approximately $30 billion over four years. Train 5,000 youths through the Digital Bridge Institute to develop ICT skills.

Timeline and Current Status

The project was conceived in 2025 and is scheduled for delivery in Q1 2026. Workshops and stakeholder engagements have been conducted nationwide to coordinate efforts and ensure equitable access to digital infrastructure. Once completed, Project Bridge will provide high-speed, resilient, and open-access broadband connectivity across urban and rural areas, significantly reducing the digital divide.

Significance

Project Bridge represents Nigeria's largest digital fiber backbone investment in any developing nation. By providing a wholesale, open-access network, it is expected to accelerate innovation, support digital services, and enhance the country's competitiveness in the global digital economy. This initiative positions Nigeria as a regional leader in ICT infrastructure and lays the foundation for future technological advancements, including AI and digital skill development.

Article Content

Project Bridge | The Federal Ministry of

Substantial improvement in internet speed and reliability across Nigeria while increasing internet penetration to over 70% and providing access to millions of

Fiber Optic Deployment in Nigeria: Progress, Setbacks,

For Nigeria, fiber optic deployment has become a central pillar of this digital transformation. Fiber optics, known for their ability to transmit data at

Nigeria''s fibre network: Lagos, Abuja hold 18% as deployment gaps ...

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Nigeria has deployed a total of 101,148.36 kilometres of fibre optic cable across its 36 states and the Federal Capital Territory (FCT), but nearly one-fifth of that infrastructure is

Nigeria Takes Giant Leap In Connectivity With $2 Billion Fibre-Optic ...

The project aims at extending the nation''s fibre-optic backbone by 90,000 km, positioning Nigeria to boast as Africa''s third-largest terrestrial fibre-optic infrastructure, upon completion.

Project Bridge: Nigeria''s Fibre Network Set for Q1 2026

Project Bridge was conceived in 2025 as a long-term strategy to close Nigeria''s digital divide by significantly expanding the national fibre optic network. The initiative aims to deploy an...

Project Bridge: Nigeria launches 90,000 km fibre optic backbone for ...

This will make Nigeria''s fibre backbone the third largest in Africa, trailing only Egypt and South Africa. The initiative is a cornerstone of Nigeria''s National Broadband Plan (2020-2025).

Nigeria unveils 90,000 km fibre optic network to boost

“It is designed to deliver high-speed, resilient, and equitable broadband connectivity to every corner of Nigeria – from major urban hubs to

Coleman launches fibre optic cable factory to power Nigeria''s digital ...

Coleman Technical Industries Limited, Nigerian wires and cables manufacturer, has launched a 9 million kilometers Fibre Optic cable factory in Sagamu, Ogun state. The event, which

Nigeria Fibre Rollout 2026 Telecoms Expansion Set to

This article explores the prospects of the Nigerian fibre rollout scheduled for 2026, examining policy frameworks, funding models, industry

Nigeria''s massive $2bn fibre rollout set for 2026

Fibre rollout is scheduled to start in Q1 2026, covering 90,000 kilometres over five years, with route surveys and capacity-building initiatives already underway.

Nigeria Fibre Rollout 2026 Telecoms Expansion Set to

Nigeria''s telecom sector is poised for one of the most ambitious infrastructure rollouts in the country''s recent history as industry leaders and

Fiber Optics: Understanding the Basics

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Fiber also is easier to install and requires less duct space. Applications Some of the major application areas of optical fibers are: • Communications — Voice, data,

Fibre-optic-controlled weapon resistant to electronic jamming ...

Babasky Technologies in Nigeria has successfully tested a domestically developed fiber-optic guided loitering munition named UNIKAM-FO1. The UNIKAM-FO1 drone uses a fiber-optic and

Fiber Optics and Types

Fibre optics, with its high bandwidth, low electromagnetic interference, and resilience, is critical for modern telecommunications, internet, medical, and military applications. Despite greater

Broadbased Communications Limited (BBC): Lagos Data Center

Broadbased is licensed by the Nigerian Communications Commission as a Metropolitan Fiber Optic Network Operator, Private Network Links Operator, International Data Access Gateway Operator,

Coleman opens massive new fibre optic factory in Nigeria

The Federal Government has inaugurated Coleman Industries Ltd''s new fibre optic cable manufacturing factory in Sagamu, Ogun State, with an annual

Building a Nationwide Fiber Network (Part 1): Why Fiber Is the ...

A fiber optic cable is a communication cable made of incredibly thin strands of glass or specialized plastic that transmit information using pulses of light instead of electricity.

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