

Article Overview

Chad is expanding its fiber optic network with a 559 km trans-Saharan backbone and a 50 km metropolitan network in N'Djamena to improve internet connectivity and digital infrastructure.

Trans-Saharan Fiber Optic Backbone

Chad is part of the Trans-Saharan Fiber Optic Backbone (DTS) project, which aims to interconnect several African countries, including Algeria, Mali, Niger, Nigeria, and Tunisia, to strengthen high-speed telecom infrastructure . The Chadian section covers 559 kilometers from Massaguet through Massakory, Mao, Rig-Rig, and Daboua to the Niger border . This backbone is crucial for Chad, a landlocked country that currently relies on Cameroon and Sudan for international internet access, which often leads to disruptions . The project is funded by the European Union and the African Development Bank, with a contribution from the Chadian government, totaling approximately CFA 20.5 billion (\$33.9 million) .

Metropolitan Network in N'Djamena

In addition to the long-distance backbone, a 50-kilometer metropolitan fiber optic network is being installed in Chad's capital, N'Djamena . This urban network is designed to enhance local connectivity, support high-speed internet access, and improve the quality and cost of internet services for residents. While specific details about rooftop installations are not provided, metropolitan networks typically involve urban distribution points, building connections, and potentially rooftop or pole-mounted fiber terminations to reach businesses and households efficiently.

Project Timeline and Execution

The Chadian component of the DTS project was relaunched in May 2023 after initial delays, with the CGPS/LORYNE Group responsible for execution . Approximately 100 kilometers remain to complete the Chadian section, with full completion expected by late 2026 or early 2027 . The project also includes upgrades to junctions connecting Chad to neighboring countries, ensuring more reliable international internet access .

Impact on Chad's Digital Infrastructure

Once completed, the fiber optic backbone and metropolitan network will:

- o Reduce dependency on neighboring countries for internet access .
- o Improve internet speed, stability, and coverage in urban and rural areas .
- o Support digital services such as e-government, data centers, and online education .
- o Enable broader economic diversification by strengthening ICT infrastructure . This project represents a



Chad rooftop fiber optic cable

major step toward modernizing Chad's telecommunications network and expanding high-speed connectivity across the country.

Project General Description The multinational component of the Trans-Sahara Optical Fibre Backbone (TSB) Project

After an internet blackout in Chad in October 2024, caused by broken cables in Cameroon, Chad has intensified

The first will be to inaugurate a national data centre in Chad's capital city of N'Djamena, followed by the deployment of

Officials from Chad and Cameroon are stepping up efforts to strengthen their collaboration

Where does Safitel Chad get its internet connection from? Safitel Chad sources its internet connection from fiber optic cables coming

Additionally, this project aims to deploy a high-capacity terrestrial fiber optic corridor across the Sahara Desert, connecting Algeria,

The Trans-Saharan Fibre Optic Backbone project will connect Chad to coastal countries via Niger, improving network

Market Forecast By Cable Type (Single-mode Cable, Multi-mode Cable), By Material Type (Plastics Optical Fiber, Glass Optical

Since April 2022, Chad has been collaborating with Cameroon and Sudan to build the 100Gb/s WE-Africa-NA fiber optic cable. In

Chad's government this week announced plans to launch 50 new telecom sites in N'Djamena and deploy 50 kilometers of fiber-to-the

This is a list of terrestrial fibre optic cable projects in Africa. While submarine communications cables are used to connect countries

These connections are currently limited, as the country is only linked to Cameroon and Sudan. In Chad,

The N'Djamena-Mberbi fiber-optic route is strategic because it connects Chad's capital N'Djamena to the Cameroonian

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The Ministry of Posts and Digital Economy of Chad officially launched a regional workshop on the mapping of fiber

EU-funded project aims to link Chad to regional and global networks Chad's Ministry of Telecommunications reported a vandalism

From June 17 to 20, a delegation led by Chad's Minister of Telecommunications, Dr. Boukar Michel, visited Niger to progress plans

Web: <https://bssoda.pl>

