Zimbabwe Telecom Fiber Optic Cable Construction



Overview

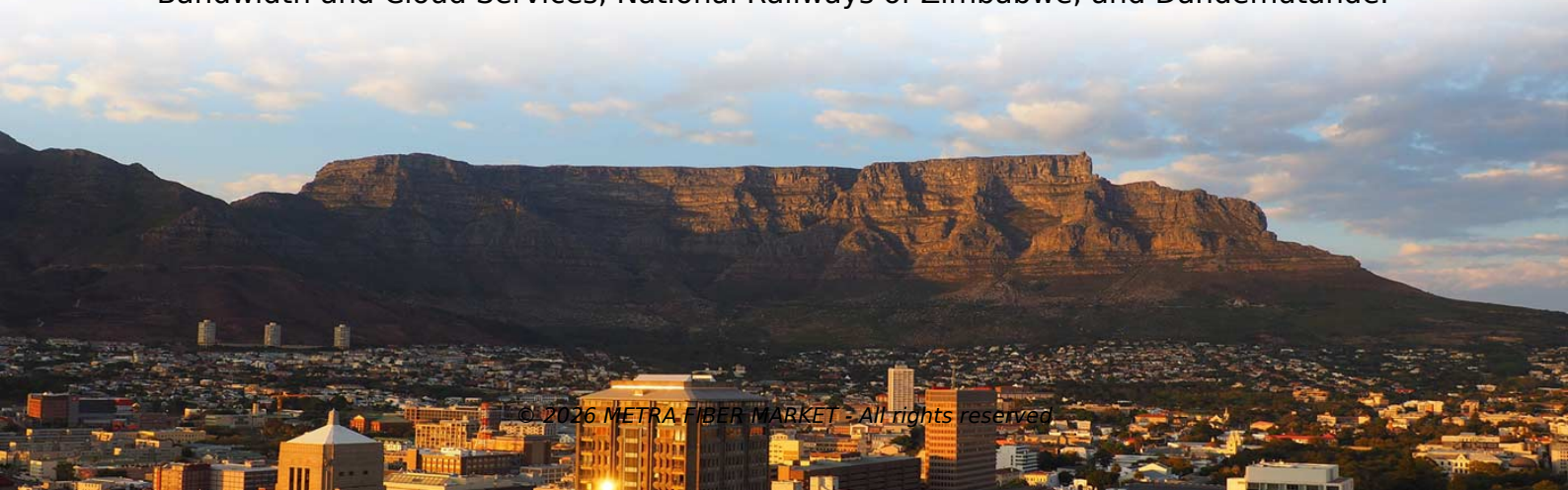
Home Vicemode Engineering, established in 2002 in Zimbabwe, specializes in civil and telecommunications engineering. With a commitment to providing turnkey.

Key Takeaways

Zimbabwe has significantly expanded its fiber optic network, completing national and cross-border projects to strengthen connectivity and support broadband adoption. Key Fiber Optic ProjectsTelOne Optical Cable from Makuti to Chirundu: TelOne, Zimbabwe's main fixed-line operator, completed a 65-kilometer optical fiber line connecting Makuti to Chirundu at the Zambian border. This project supplements the existing Kariba-Zambia route, enhancing cross-border communication and improving call quality and network efficiency.

Tel

One operates a nationwide optical fiber backbone exceeding 4,000 kilometers, forming the core of Zimbabwe's fixed-line telecommunications infrastructure. Zimbabwe National Broadband Plan (2023–2030): Under this plan, fiber optic cables are being deployed from Beitbridge to Victoria Falls and Harare, covering approximately 890 kilometers. The project involves multiple stakeholders, including Bandwidth and Cloud Services, National Railways of Zimbabwe, and Dandemutande.



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Testing of these cables has been completed, ensuring reliable bandwidth movement and solar backup for uninterrupted service. Communities along the route, including towns and villages, will gain access to broadband connectivity. Regional Fiber Backbone Projects: Zimbabwe is part of a larger regional initiative constructing a 10,000 km fiber-optic backbone across five countries—Democratic Republic of Congo, Zambia, Zimbabwe, Malawi, and Mozambique.

This project aims to connect schools, hospitals, and government institutions, significantly improving service quality and access to connectivity in previously unconnected areas.

Companies and Services Involved

Vicemode Engineering: Established in 2002, Vicemode Engineering specializes in civil and telecommunications engineering, including fiber optic installations, maintenance, and FTTH/FTTx network deployment. Their services cover surveying, trenching, cable blowing, splicing, termination, and network testing, ensuring high-quality and reliable fiber infrastructure. Equipment and Maintenance: Projects utilize heavy machinery such as excavators, thrust boring machines, and GPS units.

Maintenance services include scheduled upkeep, fault repairs, and manhole upgrades to ensure long-term network reliability.

Impact and Benefits

Enhanced Connectivity: The new fiber optic lines improve national and regional communication, supporting both residential and commercial users. Broadband Access: The National Broadband Plan aims to increase internet penetration, enabling innovation-driven economic growth. Community Inclusion: Villages and towns along fiber routes gain access to high-speed internet, bridging the digital divide.

Cross-

Border Integration: Links with Zambia strengthen regional communication and trade facilitation. Zimbabwe's fiber optic construction projects demonstrate a strategic effort to modernize telecommunications infrastructure, expand broadband access, and integrate the country into regional digital networks.

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Zimbabwe switches on first phase of regional fibre optic corridor

This follows the commissioning of the Plumtree-Bulawayo section, marking the first operational phase of a high-capacity digital corridor that will ultimately connect Zimbabwe with

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Paratus and Powertel light up first phase of Zimbabwe fibre backbone ...

Paratus Zimbabwe and Powertel Communications, the ICT arm of Zimbabwe Electricity Supply Authority (ZESA), announced on Friday that the first phase of their national fibre backbone

Construction of fibre-optic cables in the Democratic Republic of Congo ...

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The project consists in the construction of 10,000 km of fibre-optic cables as part of a regional backbone in 5 countries, including backbone as well as metro networks.

Submarine Cable Map 2025

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List of terrestrial fibre optic cable projects in Africa

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

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