

China-Africa Optical Cable Deployment



Article Overview

The 2Africa submarine cable, led in part by China Mobile International, is the world's longest optical cable system connecting Africa, Europe, and Asia, significantly enhancing digital connectivity across 33 countries.

Overview of the 2Africa Project

The 2Africa project is a transcontinental submarine optical cable initiative spanning 45,000 kilometers and connecting 46 landing sites across 33 countries in Africa, Europe, and Asia . It is designed to provide high-speed, stable internet connectivity to over 3 billion people, making it a cornerstone of Africa's digital infrastructure . China Mobile International (CMI) is a key partner, investing in one pair of optical fibers covering 28 landing sites across 23 African countries, strengthening network links between Africa, Europe, and Asia .

Technical Features

- **Capacity:** The system supports up to 180 terabits per second (Tbps) on key segments, with 16 fiber pairs in some areas .
- **Technology:** 2Africa uses Space Division Multiplexing (SDM) and Wavelength Selective Switching (WSS-ROADM), enabling flexible bandwidth management and scalable network operations .
- **Design Innovations:** The cable incorporates aluminum conductors, increased burial depth for protection, and routing to avoid subsea disturbances, ensuring high reliability .
- **Open System Design:** Each investor can independently manage their segment, inc...

Article Content

2Africa Core Infrastructure Completes

The 2Africa consortium, comprising Bayobab, center3, China Mobile International, Meta, Orange, Telecom Egypt,

List of terrestrial fibre optic cable projects in Africa

Definition and Scope Terrestrial fibre optic cable projects in Africa involve the deployment of optical fiber cables laid across land

How Different Regions Are Rethinking Their Approaches to Subsea Cables

Over the past year, a team of Carnegie researchers has explored how these dynamics are shaping subsea cable

Africa-China relations

Africa-China relations, also referred to as Sino-African relations, Afro-Chinese relations and China-Africa relations, are the

Connecting Beijing's global infrastructure: The PEACE

Beijing now boasts strategic infrastructure assets in geopolitical hotspots. For example, the Pakistani port

Updates | 2Africa Cable

Updates on landings and the progress of our cable development. Title Tag 2Africa deployment is underway. 2Africa is

Chinese Telecommunications Companies in Africa

Chinese telecom equipment and infrastructure. Financially supported by Chinese financial institutions (China Exim Bank, China

Africa's Optical Fiber, Bundles, and Cable Market Set to Reach USD

Africa's journey toward digital transformation is gaining momentum, and at the core of this progress lies the

Home | 2Africa Cable

2Africa connects 3 billion people over 33+ countries on 3 continents through a 45,000 km digital highway. Title Tag 2Africa

Fiber-optic leap bridges African digital divide

Anchored in Kenya, the fiber-optic cable will run through Uganda, Rwanda, the Democratic Republic of Congo (DRC),

Eastern segment of China-funded submarine cable in Africa activated

He noted that the 2Africa cable will enhance access to affordable internet, besides strengthening the resilience of

2Africa Subsea Cable Unlocks Digital Future

On November 7, the eastern section of the 2Africa subsea cable system—jointly developed by China Mobile

2Africa International Submarine Cable Project: Building an Information ...

This cross-continental submarine optical cable project covers Africa, Europe and Asia, with a total length of more than

Announcing the Completion of the Core 2Africa System: Building the ...

By leading the design, funding, and deployment of the world's longest subsea cable system to date, we are building

2Africa International Submarine Cable Project: Building an Information ...

The project aims to deliver high-speed and stable Internet connections to 33 countries by deploying advanced

China's ICT Engagement in Africa: A Comparative Analysis

This piece was published in the Winter Issue Print Edition (Volume 11) Abstract This paper will analyze the methods,

2Africa Submarine Cable Project Set To Transform African

At 45,000 km long, 2Africa will be one of the world's largest subsea cable projects and will interconnect Europe

The Next Superpower Battlefield Could Be Under the Sea in Africa

Submarine fiber-optic cables traversing oceans and connecting the African continent have fast emerged as a

2Africa: a transformative subsea cable for future internet connectivit

The 2Africa cable will implement a new technology, SDM1 from ASN, allowing deployment of up to 16 fibre pairs

New Regional Map Depicts 77 Cable Systems Connected to Africa

The 2025 Africa Telecommunications Map is out—and it pairs perfectly with this year's Submarine Cable Map.

2Africa Submarine Cable's Core Infrastructure Completed China

This initiative aims to build a leading regional international submarine cable connectivity that covers Africa while

China Mobile, Facebook, MTN, Vodafone Building Africa's Undersea ...

The 2Africa cable will implement a new technology, SDM1 from ASN, allowing deployment of up to 16 fibre pairs

2Africa Submarine Cable's core infrastructure completed by China

China Mobile International (CMI), along with seven global partners including Bayobab, center3, Meta, Orange,

China Mobile teams up to build subsea cable for Africa, Middle East

The 2Africa cable has been designed to improve resilience and maximize performance, including the option of a

China's Digital Silk Road and Africa's Technological Future

An example is the recently announced Chinese-funded "Smart Burkina" project which consists of the installation of fiber optic network

World's longest subsea cable completed: Meta's 2Africa set to ...

Meta and its consortium partners have completed the core 2Africa subsea cable system, marking a major milestone

2Africa Cable Finishes Core Build, Connecting 33+ Countries at 180

China Mobile International (CMI) and seven global partners — Bayobab, center3, Meta, Orange, Telecom Egypt,

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