INTELSAT

Bridging the Connectivity Gap to a Better World

Today, around 600 million people live in areas without access to mobile broadband coverage, most often the only means to connect to the internet. Mobile network operators, although eager to meet connectivity needs, face significant challenges in building out mobile network infrastructure in rural and hard-to-reach areas.

Unserved Communities Worldwide

600m
People without access to mobile broadband (often the only means of connecting to the internet).
Source: GSMA
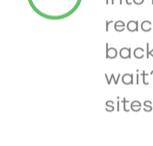
346m
Youth, ages 15–25, who are not online.
Source: Unicef

87%
Network connections are made via mobile broadband in developing countries.
Source: GSMA Report

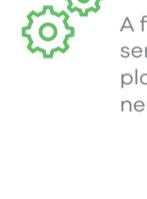## Why Terrestrial Backhaul Alone Isn't Enough

Cost
Running fiber or microwave backhaul infrastructure over long distances (and challenging terrain) is cost-prohibitive.

ROI
Small population density and low ARPU in rural communities makes it difficult to recover investment.
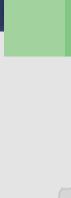
Time
Building out terrestrial backhaul infrastructure over long distances can take months, a year, or even longer.

Achieve More with Mobile Backhaul via Satellite
6 Reasons to Include Satellite Backhaul in Network Planning Strategies

1. Cost-efficient Backhaul
Advanced satellite technologies means bandwidth can be cost-effectively distributed dynamically to hundreds—even thousands—of sites using smaller antennas..
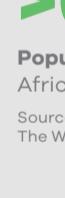
2. Worldwide Coverage
Extend coverage to more users and things. Intelsat's fleet of geostationary satellites cover 99% of the world's populated areas.

3. Network Continuity
When network outages occur from damage to terrestrial backhaul, satellite backhaul can be used to keep users connected everywhere they live, work, and play.

4. Faster Deployment
Building out mobile coverage into rural and hard-to-reach areas using terrestrial backhaul takes time. Why wait? Quickly connect rural sites with satellite backhaul.

5. Fiber-like Connectivity
Advancements in satellite hub and modem technologies utilize forward error correction, TCP acceleration, and caching to support the best user experience possible.

6. Professional Services
A full suite of professional services meet the unique planning and implementation needs of every customer.

Welcome to a new world of greater connected possibilities with satellite-powered mobile backhaul.

SPOTLIGHT
The Benefits of Mobile Broadband in Sub-Saharan Africa

The connectivity gap in Sub-Saharan Africa has closed in recent years due to the increased availability of mobile broadband coverage, especially in urban areas and countries with developing economies. But large swaths of Sub-Saharan Africa's most remote and rural regions remain disconnected.

The Democratic Republic of the Congo (DRC) is one of Sub-Saharan Africa's least developed countries where the gap in mobile broadband coverage is particularly pronounced.

>650m
Population in Sub-Saharan Africa living in rural areas
Source: Based on data from The World Bank

270m
Population in Sub-Saharan Africa living without access to mobile internet connectivity
Source: GSMA

>49m
Population of Congolese who live in rural or remote areas
Source: The World Bank

>32m
Population of Congolese who live in areas without access to mobile broadband
Source: GSMA Intelligence

DEMOCRATIC REPUBLIC OF THE CONGO

Challenges
Facing Congolese Mobile Users

Lack of mobile broadband
Economic barriers make it impractical for mobile operators to build out 3G/4G using fiber or microwave.

Health crises in remote areas
Health workers are unable to adequately respond to infectious outbreaks and other medical needs without internet connectivity.

Economic hardship
The DRC remains one of the most economically challenged countries in the world, with 80% of the population living in poverty.

Solutions
Satellite Backhaul Provides

Access to reliable connectivity
Mobile operators can quickly and economically expand access to 3G/4G.

Access to the wider medical community
With mobile internet access, healthcare providers can report up-to-date outbreak data and receive advice from colleagues in real-time.

Access to economic opportunity
Providing mobile broadband in rural areas enables mobile money services and helps stimulate job growth.

Experience Reliable, Always-on Coverage With Intelsat

For over 50 years, Intelsat has used its advanced, high-throughput satellite fleet to support broadband services in multiple industries, providing the expertise, quality, and cost-effective solutions organizations need to make their network services a success.

Achieve More By Connecting More

Get started today gaining more market penetration by including high-performing, cost-efficient satellite backhaul as part of your mobile network planning strategy.

Connect More Users in Hard-to-Reach Places

Cover More Remote Areas

Achieve More Business Goals

Are You Ready to Connect the Rest of the World?

Expand the reach of mobile broadband coverage efficiently and cost effectively. Learn more about the advantages of satellite backhaul today **intelsat.com/connect-more.**

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