

Vodacom DRC

Mobile carrier leverages SES design and managed solutions to bring growth and safety to isolated communities.



Industry
Telecommunications

Location
Africa



About the MNO

- Vodacom Congo, a subsidiary of the Vodacom Group (Pty)Limited, South Africa and the Vodafone Group, UK brings people together in the country's most remote areas.
- As a leading communications company in the Democratic Republic of Congo (DRC) Vodacom wants to empower a connected society by providing essential mobile and fixed voice, data, financial services, and Enterprise IT solutions to millions across the region.



Customer challenge

The DRC is the largest country in sub-Saharan Africa, where more than 50% [based on 2024 World Bank data] of the population or around 57 million of people live in rural and remote areas. The vast majority of them are currently not covered by mobile broadband networks, which constitutes a major socio-economic development gap and isolation from the modern world.

Vodacom wanted to bring connectivity to these isolated communities while meeting regulatory requirements, but they faced significant challenges. The country is vast and villages are small and widely spread out. Deploying a network in this tough environment would involve costly construction over long distances covering difficult terrain, often

with no electrical power facilities available. In the absence of a national grid, energy would be a considerable ongoing cost for network operation. In many rural areas, cell sites depend on diesel generators. This infrastructure is expensive to install, operate and maintain – a problem exacerbated by diesel being a target for theft. They also knew that this investment would serve small communities that ultimately deliver lower traffic volumes.

With the exorbitant costs associated with building a terrestrial network piling up, Vodacom needed an innovative solution that minimized capital expenses while helping them achieve business goals. How could they profitably extend cellular service to millions of hard-to-reach rural residents across the DRC?

How we helped

SES and Vodacom jointly developed a practical business plan and customized commercial model that would work for the mobile operator's unique business needs while minimizing implementation and operating costs.

This turnkey, lower-power-consumption solution combined satellite connectivity with terrestrial service and SES management.

Designed purposefully to expand mobile coverage into rural and ultra-rural areas, it deployed small-cell RAN, solar power and batteries with satellite equipment to ensure reliable, anytime connectivity and reduce maintenance and management. All of these components were selected for the region with the goal of facilitating easier communication and better quality of life.



SES provided the perfect coverage and technical performance for the DRC, enabling immediate reach to the highland villages of South Kivu. Further upgrade to SES Epic delivered higher-throughput, 3G connectivity and lowered the cost per bit of service.

Results

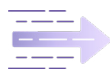
Business growth due to increased market share in remote areas



Vodacom was the first to expand their market into a population that previously had no connectivity options—not even landlines.



Upon scaling up to 900 rural sites, Vodacom rapidly achieved the highest penetration and subscriber base in DRC.



Upgrades to more than 100 sites, leveraging the SES Epic IS-37e HTS satellite, enabled 3G service in remote areas and drove new revenue in a growing market.



Easy scalability and growth in traffic have led to swift and substantial increases in profitability.

Positive impact on safety, security and economics



Cellular connectivity has improved community security by making it easier to reach authorities.



The availability of telecommunications service has opened the door for job opportunities, new business ventures and money transfers, enhancing the health and well-being of people across the region.

Solve.
Empower.
Soar.



For additional
information on this
project, please visit
ses.com

Published in May 2026.

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