

Never Ncube | CEO













Presentation Flow

- 1. Why is it Important
- 2. Where are we
- 3. What are the Challenges
- 4. What Initiatives are being taken
- 5. Recommendations
- 6. Call to action





Connectivity is no longer a luxury. It is a human right just like water, food, and shelter.

The United Nations has already declared internet access a basic human right. Why? Because in the digital age, to be offline is to be disadvantaged. Without it, children cannot learn, farmers cannot access markets, clinics cannot deliver care, and businesses cannot thrive. Connectivity is the new foundation of prosperity — it is what enables communities to participate in the modern economy.

Just as 20th-century economies were built on roads, railways, and electricity, 21st-century economies are built on broadband highways. Roads connect places; connectivity connects people to knowledge, markets, and possibilities

Connectivity is the invisible infrastructure upon which modern prosperity is built. It is not simply about cables, towers, and satellites — it is about inclusion and empowerment.



The Economic Argument



Digital Adoption Impact on Global GDP

Globally, over 70% of GDP growth in the past decade has been linked directly to digital adoption. Nations that digitize faster grow faster, create more jobs, and attract more investment. Every major sector is being redefined by digital connectivity:

- Finance: mobile money and fintech solutions drive financial inclusion.
- Health: telemedicine and AI diagnostics save costs and extend reach.
- Education: e-learning and digital classrooms equalize access to quality learning.
- Agriculture: IoT sensors, precision farming, and digital marketplaces boost yields and incomes.
- Trade: cross-border e-commerce allows even rural entrepreneurs to sell globally.



The Social Argument

Universal connectivity is not just technical. It is social, cultural, and economic inclusion:

- · It gives rural youth access to the same opportunities as their urban peers.
- · It empowers women, who often bear the burden of limited mobility, to access markets and knowledge without leaving their communities.
- · It strengthens democracy and governance by giving citizens access to information and digital platforms for participation.

When a nation invests in connectivity, it is not just wiring households — it is wiring hope, dignity, and opportunity into every village.



The Namibian Imperative



Namibia has an opportunity to lead by building a hybrid connectivity model that blends fiber, wireless, and satellite solutions. By doing so, we can:

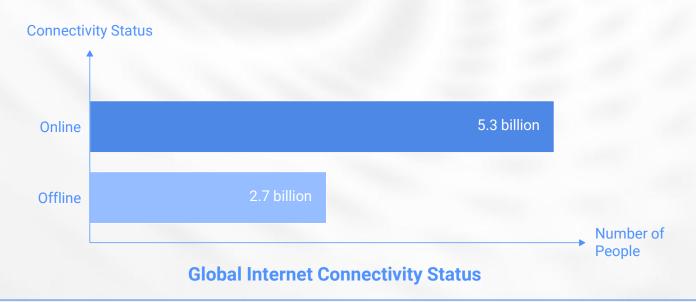
- · Connect every school and clinic.
- · Digitally empower every farmer.
- \cdot Ensure that no Namibian is left behind in the digital economy.

Universal connectivity is not a cost — it is the best investment Namibia can make in its people and its future prosperity



Where are we

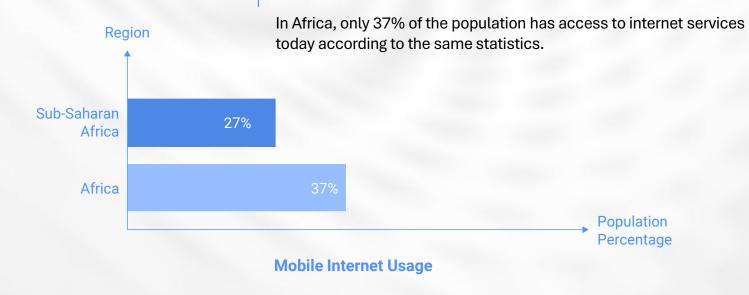
Across the globe, two-thirds of the population is online. But 2.7 billion people remain offline, mostly in rural areas. These numbers tell us a story: connectivity is the new inequality.





Where are we

73% of the population in Sub-Saharan Africa is not using mobile internet, the 27% represents a growing base of digital adopters driving innovation, commerce, and education.







Where are we



Across the Southern African
Development Community (SADC): The
regional average stands at about
57.2% of the population connected to
the internet, showing strong growth
but masking significant disparities.

This highlights a significant digital divide within SADC, with rural areas and low-income populations remaining under-connected

Challenges

Global Challenges

Economic Losses → A 10% increase in broadband = 1.5% GDP growth. Without it, countries lose billions.

Education Divide → During COVID, 1.3 billion children missed effective online learning. The gap widens permanently.

Healthcare Inequality → No internet = no telemedicine, slow epidemic response, weaker health outcomes.

Democratic Exclusion → Citizens offline cannot access egovernment, news, or civic participation platforms.

One network. One Africa. Limitless potential.



SADC Challenges

Affordability Crisis → In many SADC countries, 1GB costs 5–10% of monthly income, vs UN target of 2%.

Urban–Rural Divide \rightarrow Rural penetration often <25%, while cities reach 70–80%.

Poor Speeds → Median speeds 10–15 Mbps in parts of SADC vs global avg 46 Mbps. Businesses can't compete.

Farmers & SMEs Locked Out → No access to weather data, digital payments, or market prices → lower income cycles.

Digital Illiteracy → Even connected users lack devices & skills. Internet used mainly for social media, not productivity.

Regulatory Bottlenecks -> Spectrum allocation delays, resistance to Starlink/community networks, and limited PPPs slow progress.



What are the challenges

Namibia's Connectivity Challenges

Sparse population & vast terrain → costly, difficult infrastructure rollout.

Low incomes & affordability gaps → limited access to devices and data.

High infrastructure & backhaul costs → patchy coverage, low speeds.

Exclusion from opportunities → farmers, students, clinics, and entrepreneurs left behind.

 $\textbf{Essential services disrupted} \rightarrow \textbf{online submissions, banking, security systems unreliable.}$

Development barrier → over 70% of workforce in agriculture affected, limiting growth.

This is a digital poverty trap, and it is one we can and must address. **Connectivity is not a tech issue**- it is an economic, social, and human development emergency. Every day without action is: Lost GDP | Lost jobs | Lost opportunities for farmers, students, and entrepreneurs



Pain Points

Connectivity gaps are more than technical—they are barriers to communication, learning, and livelihoods.

Education: Rural children excluded → limited learning & opportunities.

Agriculture & Economy: Farmers miss data, e-gov, smart farming → lower incomes, wasted produce.

Healthcare: Clinics lack telemedicine & timely data → slower, riskier care.

Business: SMEs can't scale online → blocked from e-commerce & cloud tools.

Civic Inclusion: Rural areas cut off from services & critical info.

Bottom Line, Without connectivity, communities are digitally invisible—and invisible communities cannot thrive.

What are the challenges



Strategic Actions

The good news: solutions exist, and they are being deployed.

Namibia Government Actions	Telecom Operators	Regulatory Developments	SADC Regional Initiatives
National Digital Strategy (2025) to expand connectivity and services.	Telecom Namibia : Upgrading to 4G/4.5G + fiber expansion.	CRAN enforcing fair licensing, e.g., action against Starlink for compliance.	Broadband growth by 2030 to improve access & reduce costs.
Minimum internet speeds upgraded to 25 Mbps down 3 Mbps up.	MTC Namibia (Buffalo Project): Expanding rural LTE coverage.		Digital Transformation Strategy (DTS): affordable connectivity, device access, school infrastructure.
Universal Service Fund + N\$120M for towers and nationwide network rollout.	Paratus Namibia: Launching mobile data network` for underserved areas.		ICT Infrastructure Plan: regional satellite + broadband corridors to reach rural areas.

Key Message: A coordinated approach between regional bodies, government, telecom operators, and regulators is actively addressing Namibia's digital divide, ensuring that rural and underserved communities are connected and included in the digital economy.

Alternative Technology



Alternative and Emerging Technologies for Connectivity

PTMP Networks: Cost-effective, scalable broadband for rural areas & farm clusters with fewer base stations.

5G & LTE Expansion: Extending high-speed mobile broadband in urban & rural zones; supported by Zimbabwe, Namibia, ITW, and European projects.

Satellite Constellations:

- China's GuoWang → 13,000 satellites for global broadband.
- Starlink & OneWeb → high-speed internet for remote/underserved areas.
- European initiatives (IRIS², Eutelsat Konnect, Africa-EU Space Programme) → reliable rural and government-grade connectivity.

Fiber-Optic Expansion: Extending backbone networks to schools, clinics, farms & businesses, enabling 4G/5G growth.

These technologies- mobile broadband, PTMP networks, satellites, and fiber—are complementary solutions. Together, they can bridge the rural-urban digital divide, bring high-speed connectivity to remote communities, and enable farmers, schools, and businesses to fully participate in the digital economy.





Recommended Change

Technology alone is not enough. Regulation must enable innovation:

- Streamlined licensing for new technologies.
- Incentives for rural rollouts through tax breaks and USF funding.
- Fair spectrum pricing to encourage investment.
- Clear policies to allow new entrants like satellite broadband providers to operate while ensuring local benefits.

Regulatory reform is essential for both access and adoption. The frameworks must be forward-looking and enabling. By simplifying approvals, allocating spectrum wisely, and supporting rural infrastructure, we can unlock the potential of alternative technologies and ensure no Namibian is left behind in the digital economy.

Connecting today, transforming tomorrow.



Call to Action

Regulators & Authorities

- Fast-track licensing for satellite, 5G, LTE, and other technologies.
- Efficiently allocate and manage spectrum for fair coverage.
- Incentivize private investment in rural broadband.
- Enforce minimum service standards for reliability and consumer protection.

Telecom Operators

- Invest in rural towers, fiber, and LTE/5G networks.
- Use innovative solutions (PTMP, satellite, multi-point networks) for remote areas.
- Partner with schools, clinics, and agricultural hubs to promote digital inclusion.

Farmers & Local Communities

- Protect and maintain connectivity infrastructure.
- Adopt digital tools for markets, education, and financial services.
- Collaborate with authorities and operators to safeguard community networks.



Conclusion

Connectivity is not a luxury—it is the foundation of growth, inclusion, and opportunity. Regulators, operators, and communities must act decisively and together. When we take ownership and protect the infrastructure, we ensure that Namibia's rural communities are not just connected—they are empowered to thrive in the digital economy