SESSION

ON FINANCING TO ACHIEVE AFFORDABLE CONNECTIVITY, AND MEANINGFUL ACCESS AND USE

> 24 June 2021 **By Andile Ngcaba**



\$428 BILLION

REQUIRED BETWEEN 2020-2030 TO CLOSE THE DIGITAL GAP AND PROVIDE CONNECTIVITY TO 90%OF THE WORLD

\$100 BILLION

MUCH AFRICA ALONE NEEDS TO PROVIDE CONNECTIVITY

500 000 KM

W MUCH FIBRE AFRICA NEEDS TO ACHIEVE FULL CONNECTIVITY

EVOLUTION OF TELCOS

Monopoly Fixed Telcos State-Owned

1980s

The Birth of Mobile Network Operators Privately Owned 1990s Telecomms Deregulation Privatization & Competition GATS to WTO - Opening up Telecomms Markets European Commission Telecom Liberalization

The Current Internet

- Fibre Wholesale model
- Towers business model - Carrier neutral towercos

Internet Service providers growth funded by Entrepreneurs Increased investments in Telco and Mobile PE, Debt, Universal services grants, DFI

Establishment of independent regulators

MARKET-CREATION (Clayton Christensen)

- The last mile discussions Market-creation perspective addresses the opportunity of vast non-consumption and leverages Unmet Demand.
- The last mile Edge investments will unlock markets and have a sustainable long-term impact with connectivity infrastructure to support development and inclusive.
- Last-mile connectivity is disruptive, allowing access to products and services that once out of affordability reach – Affordability Gap.
- Market creation models allow for cooperation, collaboration and partnerships between public and private sector.
- The last mile of the internet of things era Edge:
 - connects education with EdTech
 - increases yields with AgriTech for food security.
 - provision and delivery of universal health with HealthTech
 - mitigate climate change with green energy microgrids and reduce Carbon dioxide emissions with connected auto.

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HYBRID FUNDING MODELS

TRADITIONAL

Development Finance Institutions Private Equity – PE

- Venture capital – VC
- **Capital Markets Equities**
- **Debt & Loans**
- **Build-operate-transfer (BOT)**
- **Treasury Bonds**
- License fees
- Universal service Fund
- Tax Incentives

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MEASUREMENT AND OUTCOMES

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NEW FUNDING MODELS

- The changes of Edge high-performance compute, storage, and network will require different models to funding.
- Funding connected cars will be different from the traditional model of funding the classic last mile.
- Tokenization of infrastructure can be used to help fund last-mile connectivity.
- 10% of global GDP is projected to be tokenized and traded using blockchain. technology by 2025 representing \$24 Trillion of financial & non-financial assets that can help fund last-mile connectivity infrastructure.
- Fractional Ownership putting the ownership of the last mile connectivity infrastructure on the blockchain can help drive down costs for investors.
- There will be exposure of the last mile assets to blockchain funds placed on initial Coin offerings (ICOs) and Security Token Offerings (SCOs).

INNOVATION OBSERVATORY

- Moving forward we need to consider building repository platform.
- The repository will allow for Knowledge sharing among stakeholders across the globe.
- The platform would be a repository of proof of concepts and best-case studies from various projects around the globe.
- Working models would then be shared easily and replicated for widespread observable impact.
- The repository could also benefit from incorporating AI tools to allow for comparative analytics of case studies.
- We see this knowledge sharing model working in the Open-Source Community.