

2023 INTERNATIONAL SYMPOSIUM

Borderless Digital Transactions PKI's Role in a Globalized World

Kenya's Digital Landscape & the African Perspective

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Cyberspace: Pan African Ecosystem

Cyberspace: Pan African Vision

Challenge

Curing the Challenge

Conclusion

Closing

CYBERSPACE: PAN AFRICAN ECOSYSTEM



Indicator	Kenya	Africa
Population/Land Mass	53M, 0.6M km ²	1.4T, 30.3M km ²
Mobile Penetration	66M, 131%	489M, 43%
Mobile Payments	>\$52B	>\$700B
Terrestrial Fiber	10,000 of 100,000km	-
Public WiFi Hotspots	870 of 25,000	-
Online Public Services	14,000 of more	-

Internet Users	>49M, ~92%	>600M, ~40%
Domain Names vs Digital Certs	100,000 vs 1,400	4.1M (ICANN, 2016)
NPKI Infrastructure	1 RCA & 4 CA's	Africa PKI Forum

Contribution to GDP	~10%	~5.2%
iGDP 2025 (World Bank/IFC)	\$9 Billion	\$180 Billion
1% incr. in Digital Trust = \$600 avg. incr. in GDP per Capita (CEBR, 2022)		

CYBER SPACE: PAN AFRICAN VISION



..one-stop shop, 100% literacy, interoperability, integrated & prosperous Africa, confidence in tech...

AU 2063

EAC 2050

National Digital Masterplan
2032

Digital Government

Digital Business

Digital Skills

Digital Innovation

Digital Efficiencies

Digital Effectiveness

DIGITAL TRUST driven by PKI SERVICES

CHALLENGE



..\$8T cost of cybercrime, risk averse, resistance, culture change, cross certification....

Cyber Insecurity

Legacy Systems

Limited Resources

Digital Skills Gap

Digital Trust Gap

Cross Regulation

CURING THE CHALLENGE

VISIONARY & STRATEGIC LEADERSHIP

TRANSLATING PKI STRATEGY TO OPERATIONAL TERMS

MOTIVATE & INVOLVE EVERYONE (whole-of-society)

ALIGNING THE ORGANIZATION TO PKI STRATEGY

STRUCTURE

SYSTEMS

STAFF

SKILLS

SHARED VALUES

IMPLEMENT PKI USE CASES AS A CONTINUAL PROCESS



CONCLUSION



..address local needs, post-quantum crypto, opportunity beyond borders, Africa Forum, foreign CA's...

Consumer Centricism

Research & Innovation

Global
Competitiveness

Awareness & Skills

Mutual Recognition

DIGITAL TRUST
&
SOVEREIGNTY

Building digital trust into our global digital economy can unleash trillions of dollars of **opportunities**. But if we don't know for certain who we are interacting with online, we cannot have trust - **digital trust gap**. **Digital identity** must therefore be the foundational element to our digital economy.

(WEF, 2022)

A 1% point **increase in digital trust** results in an **average increase in GDP per capita** of \$600....*and thus a key driver of economic growth.*

(CEBR, 2022)

Thank You