
AI and Cybersecurity in Africa
Perspectives from
South Africa and Ghana
PECB REGIONAL WEBINARS

Agenda

- Introduction
- State of Cybersecurity in Ghana and South Africa
- AI in Cybersecurity: Trends, Opportunities, and Challenges
- Future Outlook and Way Forward

Introduction

- Presented by Nico Snyman
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- Emmanuel Makafui Damalie
  Manager, KPMG in Ghana

State of Cybersecurity in Ghana

Cybersecurity Landscape

- **99.27%** Score
  Tier 1 Status– Role Modelling
- Cyber Attacks – Public & Private Sectors
- GHS **1.9 M** lost to online investment scams – 2024
- Launch of Command SOC (FICSOC) for threat intelligence sharing



Regulatory Framework

- Cybersecurity Act, 2020 (Act 1038)
- Data Protection Act, 2012 (Act 843)
- Directive for the Protection of Critical Information Infrastructure
- Bank of Ghana Cyber and Information Directive
- National Cybersecurity Policy and Strategy
- Adoption of ISO/IEC 27001 and Related Standards
- Licensing of Cybersecurity Professionals
- National Insurance Commission (NIC) Cyber Security Directive, 2024

State of Cybersecurity in South Africa

The State of Cybersecurity in South Africa

- Rising Cybercrime Rates in SA
- Major Cyberattacks and Their Impacts
- Challenges: Infrastructure, Skills Shortage, Regulation

Current AI & Cybersecurity Landscape in South Africa

- SA’s AI Research and Innovation
- Government Regulations: POPIA, Cybercrimes Act
- Private Sector and Startups Leveraging AI

AI in Cybersecurity: Trends, Challenges, and Opportunities - SA

The Role of AI in Cybersecurity

- AI-powered Threat Detection and Response
- Predictive Analytics for Risk Mitigation
- AI in Security Automation and Penetration Testing

Challenges and Barriers

- Data Privacy and AI Bias
- Limited AI Cybersecurity Expertise
- Financial Constraints for AI Adoption

Opportunities for Growth

- Skills Development and Capacity Building
- Investment in AI-powered Security Solutions
- Public-Private Partnerships and Regional Collaboration

AI in Cybersecurity: Trends, Challenges, and Opportunities - Ghana

AI Trends and Their Implications

Leaderships Confidence in AI's Potential

87%

Understanding of GenAI benefits

45%

AI provides a competitive edge

Regulatory and Data Challenge

57%

Uncertainty over regulation

17%

Confidence in data readiness

Cybersecurity Concerns

10%

Confidence in existing cybersecurity measures

60%

Willingness to increase cybersecurity investment



Africa CEO Outlook Report 2024

AI Regulations Becoming a Priority

Africa

- Algeria – AI Research and Innovation Strategy
- Benin's 2023 AI and Data Strategy
- Egypt's National AI Strategy
- Mauritus AI Strategy
- Rwanda's AI Policy
- Senegals's AI Strategy
- **Ghana National AI Strategy**



Others

- EU AI Act, Singapore AI Verify Framework, Canada Bill C-27 AI and Data Act, 2022, etc.

Ethical AI Challenges

- Bias and Discrimination
- Lack of Transparency
- Privacy and Data Security Risks
- Accountability and Regulation

Enhanced AI security

- Data Classification and Labelling
- Identity Matching
- Incident Detection and Response
- Threat Mitigation and Business Continuity
- Advanced Risk Analysis

AI in Cybersecurity Trends

- Shadow AI
- AI-enhanced Attacks
- Use of Local Models
- AI-Enhanced Security Solutions

Future Outlook and Way Forward

Future Outlook

- AI Advancements Shaping Cybersecurity in Africa
- The Role of ISOLTX in AI-driven Risk Management
- Strategic Steps for Businesses and Governments

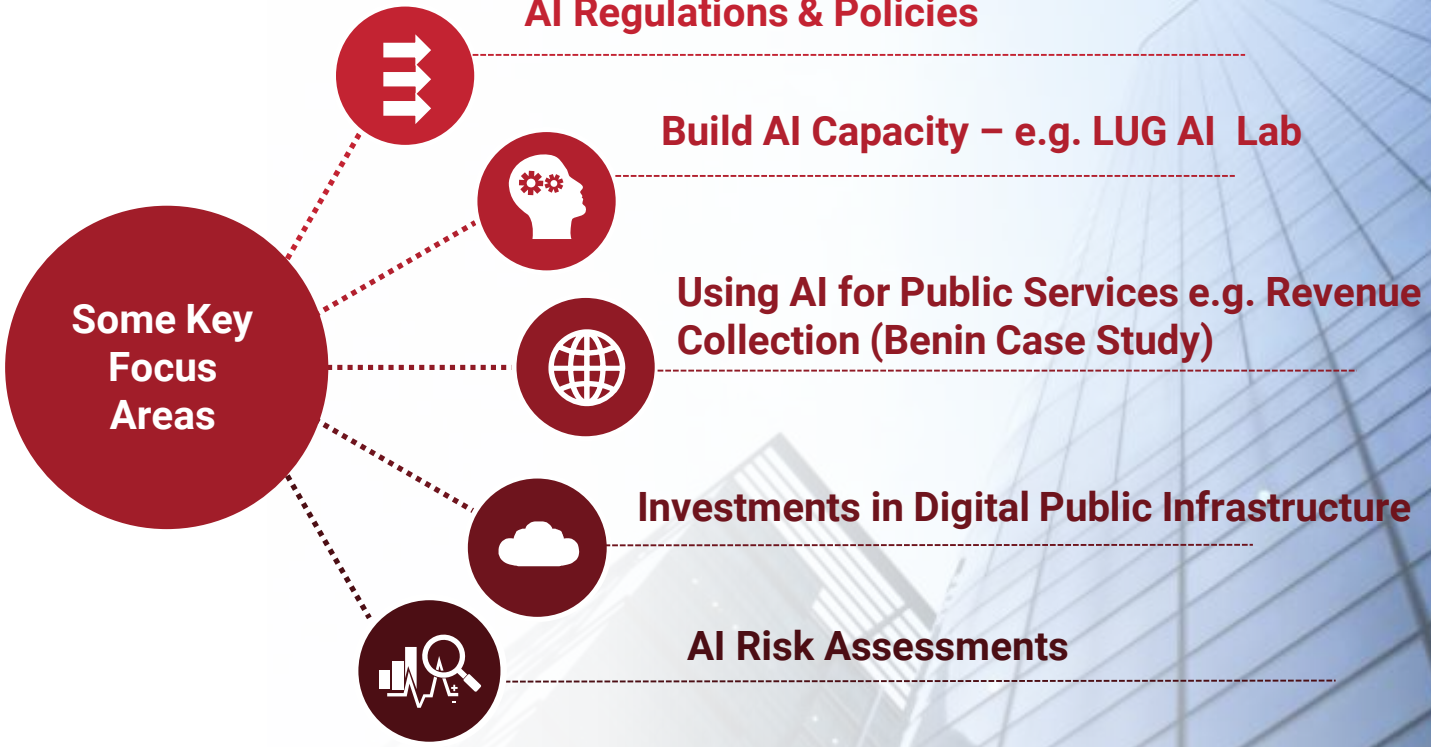
Conclusion and Call to Action

- Urgency in adopting AI cybersecurity solutions
- Need for training and investments
- Engage with us for expert guidance

Way Forward

- Implementation of ISO/IEC 42001:2023 (AI Management System)
- AI Risk Assessment
- AI Governance
- AI Security Policy
- AI Monitoring (Assurance)

Way Forward


Some Key Focus Areas
AI Regulations & Policies
Build AI Capacity – e.g. LUG AI Lab
Using AI for Public Services e.g. Revenue Collection (Benin Case Study)
Investments in Digital Public Infrastructure
AI Risk Assessments

Q&A Session



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