

# Cyber Risks

Needed by many, bought by few

## By Stanford Chabaya

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INTERNET | CYBER SECURITY | DATA CENTRE

  
**dandemutande**  
Your reliable ICT solutions partner

JAN  
2019

# DIGITAL AROUND THE WORLD IN 2019

THE ESSENTIAL HEADLINE DATA YOU NEED TO UNDERSTAND GLOBAL MOBILE, INTERNET, AND SOCIAL MEDIA USE

TOTAL  
POPULATION



**7.676**  
BILLION

URBANISATION:

**56%**

UNIQUE  
MOBILE USERS



**5.112**  
BILLION

PENETRATION:

**67%**

INTERNET  
USERS



**4.388**  
BILLION

PENETRATION:

**57%**

ACTIVE SOCIAL  
MEDIA USERS



**3.484**  
BILLION

PENETRATION:

**45%**

MOBILE SOCIAL  
MEDIA USERS



**3.256**  
BILLION

PENETRATION:

**42%**





JAN  
2019

# ZIMBABWE

THE ESSENTIAL HEADLINE DATA YOU NEED TO UNDERSTAND MOBILE, INTERNET, AND SOCIAL MEDIA USE



TOTAL  
POPULATION



**17.11**  
MILLION

URBANISATION:

**32%**

MOBILE  
SUBSCRIPTIONS



**13.04**  
MILLION

vs. POPULATION:

**76%**

INTERNET  
USERS



**6.80**  
MILLION

PENETRATION:

**40%**

ACTIVE SOCIAL  
MEDIA USERS



**1.20**  
MILLION

PENETRATION:

**7.0%**

MOBILE SOCIAL  
MEDIA USERS



**1.00**  
MILLION

PENETRATION:

**5.8%**



we  
are  
social



we  
are  
social



JAN  
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# INTERNET USE: DEVICE PERSPECTIVE

BASED ON ACTIVE INTERNET USER DATA, AND ACTIVE USE OF INTERNET-POWERED MOBILE SERVICES



TOTAL NUMBER  
OF ACTIVE  
INTERNET USERS



we  
are  
social

**6.80**  
MILLION

INTERNET USERS AS  
A PERCENTAGE OF  
TOTAL POPULATION



we  
are  
social

**40%**

TOTAL NUMBER  
OF ACTIVE MOBILE  
INTERNET USERS



we  
are  
social

**5.66**  
MILLION

MOBILE INTERNET USERS  
AS A PERCENTAGE  
OF TOTAL POPULATION



**33%**



# DIGITAL ECONOMY VISION 2030



Integration and simultaneous application of different, independently developed and ready-to-use digital technologies.

## | E-SERVICES

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- ✓ E-commerce
- ✓ Credit card payments
- ✓ E-banking
- ✓ Social media
- ✓ E-mail
- ✓ Mobile payments
- ✓ E-health
- ✓ E-agriculture
- ✓ E-learning

# | RISING THREATS

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## CYBER RISKS AND ATTACKS



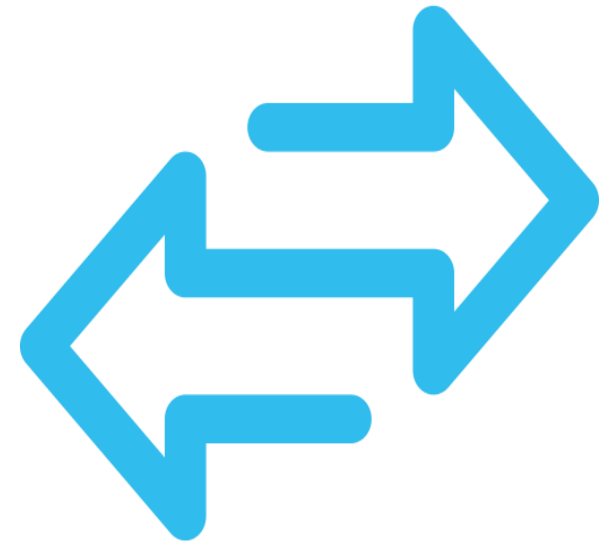
# | CYBER RISK

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## **Definition**

Exposure to harm or loss  
Breaches or attacks on information systems

Potential of harm or loss  
Related to technical infrastructure  
Use of technology





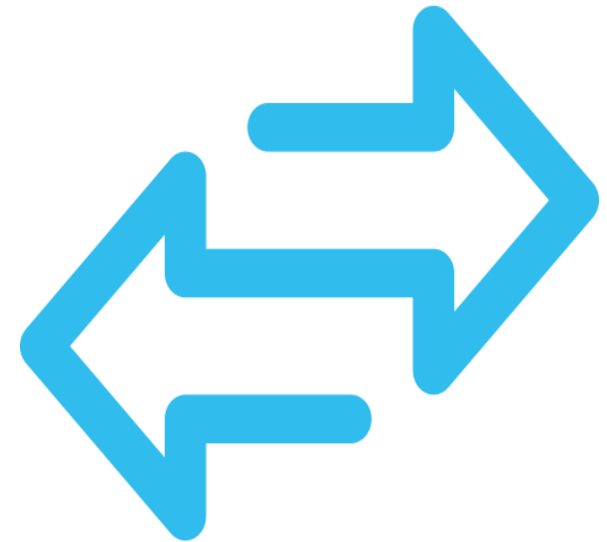
# | CONSEQUENCES

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Financial loss

Disruption to operations

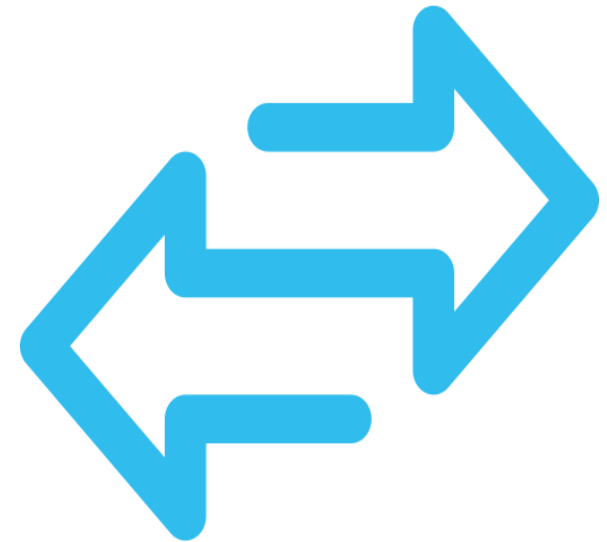
Reputational damage



## | EXAMPLES

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Cyber crime  
Data breaches  
System outages  
Online scams  
Cyber bullying  
Identity theft  
Ransomware  
Phishing  
Pharming  
Hacking



# | MANAGING THREATS

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Human awareness

Synchronised Security

Threat Intelligence &  
Management Service



# MANAGING THREATS

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- Training in cyber security principles
- Install, use and regularly update antivirus and antispyware
- Use a firewall for your Internet connection
- Software updates on operating systems and applications
- Backup copies of important business data and information
- Control physical access to computers and network components
- Secure Wi-Fi networks. If you have a Wi-Fi network for your workplace make sure it is secure and hidden
- Require individual user accounts for each employee
- Limit employee access to data and information and limit authority to install software

Regularly change passwords.

# | Fundamental sound practices

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Password protect checking accounts

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Accounts receivable checks

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Vendor and payroll checks

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Credit card receipts

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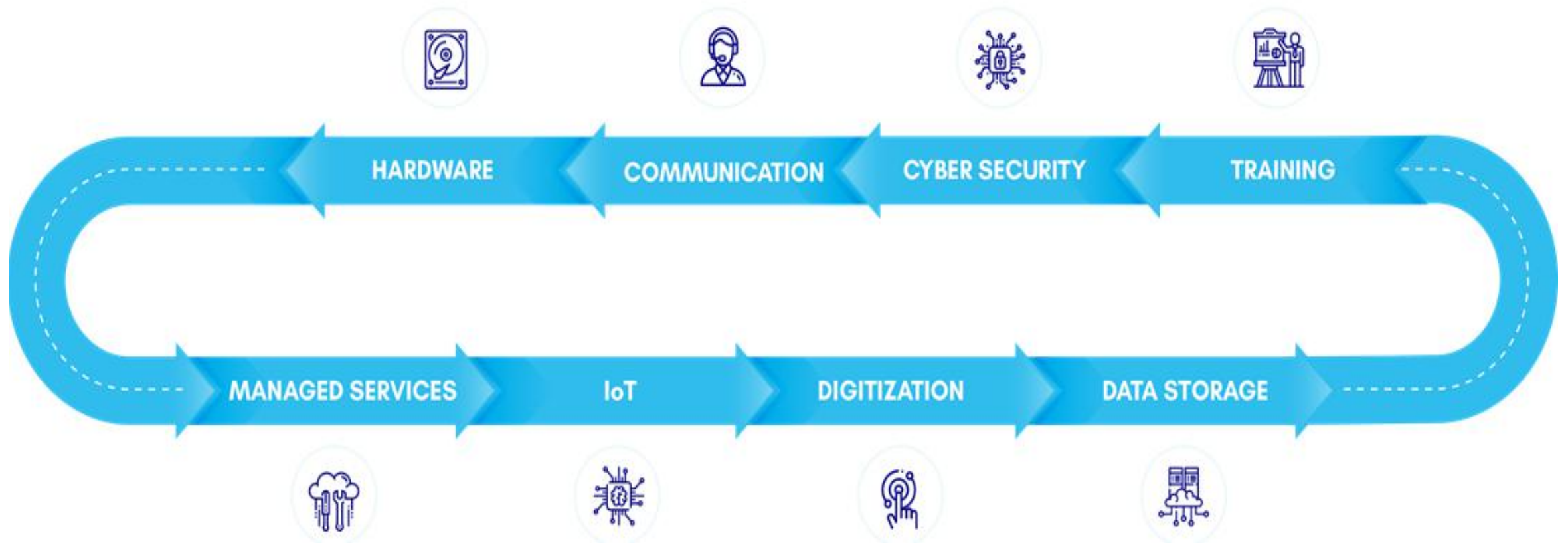
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Credit card receipts

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# MANAGING THREATS



# CYBERCRIME & CYBERSECURITY BILL

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Combat cyber crime

Increase cyber security

Approval of codes of conduct and ethics

Establishment of data security centre and Data Protection Authority

Protection of citizens against cyber bullying and harassment



# CYBERCRIME & CYBERSECURITY BILL

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Chapter VIII of the Criminal Law (Codification and Reform) Act [Chapter 9:23]

Computer Related Crimes

Section 163 - Unauthorised access to computers

Section 164 - Deliberate introduction of computer virus into computer or computer network

Section 165 - Unauthorised Manipulation of Computer data

Section 167 - Unauthorised use of Credit and Debit Cards

Section 168 - Unauthorised use of Passwords and Pin numbers

Harmonisation of cyber security laws with those of the region to increase international cooperation in the fight against cybercrime





# CYBERSECURITY & INSURANCE

Policies to protect or indemnify against the financial consequences of Internet-related threats  
Connectivity-related policies that cover cyber information and security breaches  
Generation of data on electronic losses



## NEXT STEPS

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Threat analysis

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Risk and impact

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Analyse control environment

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Risk rating

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Reporting and actioning

# SERVICES NEEDED

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## NETWORKING



- Routers, Switches, Servers
- LAN and Wi-Fi installations
- Server Management
- Business Support Services

## CYBER SECURITY



- Firewalls
- Network Security Audits
- Cyber Security Awareness

## CLOUD WEB SERVICES

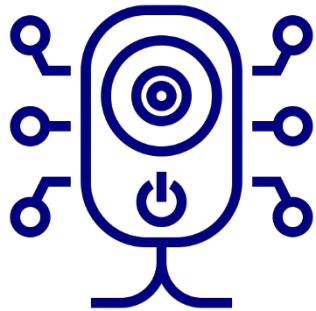


- Hosting
- Co-location
- Virtual Private Servers
- Data Back UP

# SERVICES NEEDED

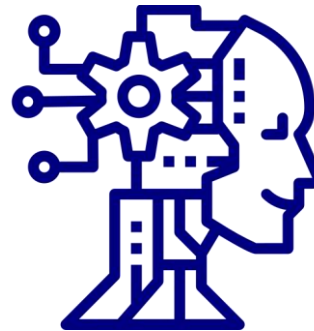
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## ELECTRONIC SECURITY



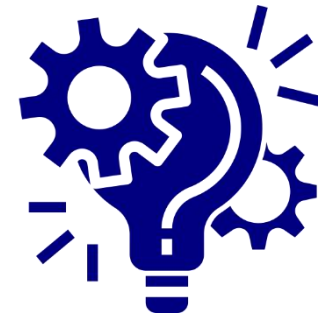
- Biometric access control
- Smart CCTV, alarm systems and rapid response
- Power backup devices/solutions

## IoT & SYSTEMS INTEGRATION



- Home & Office Automation
- Smart buildings (access control)
- Tracking solutions
- Business Software Support

## ICT PROJECT MANAGEMENT:



- ICT Policy Implementations
- Cloud Applications



**“CYBER-SECURITY IS MUCH MORE THAN  
A MATTER OF INFORMATION TECHNOLOGY”**

**\*Stephanne Nappo**

# | Thank You



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