

GHANA'S CYBERSECURITY DEVELOPMENT



Albert Antwi-Boasiako
Republic of Ghana



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GHANA



• Location

- West Coast of Africa
 - North : Burkina Faso
 - East : Togo
 - West : Ivory Coast
 - South: Atlantic Ocean

- Lat: 7.9465 N Long: 1.02319 W

• Area

- Total : 238,535 km²

• Population

- 2018 estimate: 29.6 million
- Density :123.52/km²

• GDP (nominal)2017 est.

- Total : US\$46.8 billion-
- Per capita :US\$1,654





KEY CHALLENGES

Financial
Challenges

Technology
Challenges

Cultural / Social
Barriers

Human Resource
/ Skillset

Political
Commitment

Other

Success



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GHANA'S CYBERSECURITY GOVERNANCE FRAMEWORK

POLICY DIRECTION

TECHNICAL COORDINATION & ENGAGEMENT

OPERATIONS



POLICY DIRECTION

TECHNICAL COORDINATION
& ENGAGEMENT

OPERATIONS

PRESIDENT

MINISTER FOR COMMUNICATIONS

NATIONAL CYBER SECURITY INTER-MINISTERIAL
ADVISORY COUNCIL (NCSIAC)

- Ministry of Communications
- Ministry of National Security
- Ministry of Interior
- Ministry of Finance
- Ministry of Foreign Affairs
- Ministry of Justice / Attorney-General
- Ministry of Defence

NON-GOVERNMENTAL REPRESENTATIVES

BUSINESS

CIVIL SOCIETY

INTERNATIONAL ORGANISATIONS

ACADEMIA

PROFESSIONAL / INDUSTRY ASSOCIATIONS

NATIONAL CYBER SECURITY TECHNICAL WORKING
GROUP (NCSTWG)

- National Information Technology Agency (NITA)
- National Communications Authority (NCA)
- National Identification Authority (NIA)
- Data Protection Commission (DPC)
- Financial Intelligence Centre (FIC)
- National Security
- Criminal Investigation Department (CID) Ghana Police Service
- Economic & Organised Crime Office (EOCO)
- Foreign Affairs
- Bank of Ghana (BoG)
- Judicial Service
- Ghana Army
- Research Department
- Bureau of National Intelligence (BNI)
- Attorney General's Department

NON-GOVERNMENTAL REPRESENTATIVES

BUSINESS

CIVIL SOCIETY

INTERNATIONAL ORGANISATIONS

ACADEMIA

PROFESSIONAL / INDUSTRY ASSOCIATIONS

CYBER SECURITY ADVISOR
(CSA)

NATIONAL CYBER SECURITY CENTRE (NCSC)

FREEDOM

JUSTICE

AND



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NATIONAL CYBER SECURITY CENTRE

NATIONAL CYBER SECURITY CENTRE

**INCIDENT
COORDINATION &
RESPONSE**

**AWARENESS
CREATION**

**GUIDANCE &
ADVISORY**

**RESEARCH &
DEVELOPMENT**

**POLICY &
STANDARDIZATION**

**INTERNATIONAL
COOPERATION**

CORE FUNCTIONS OF THE NCSC



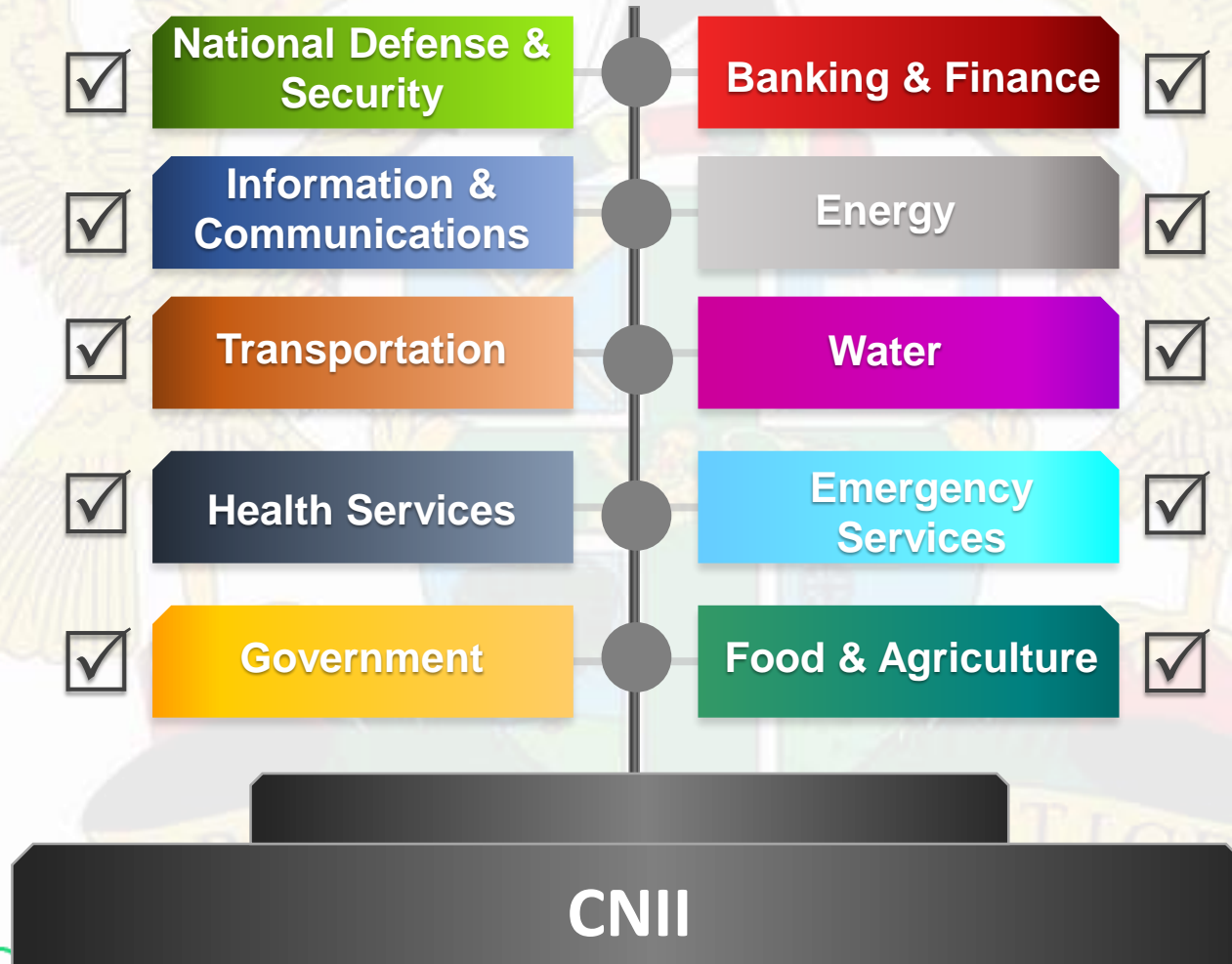
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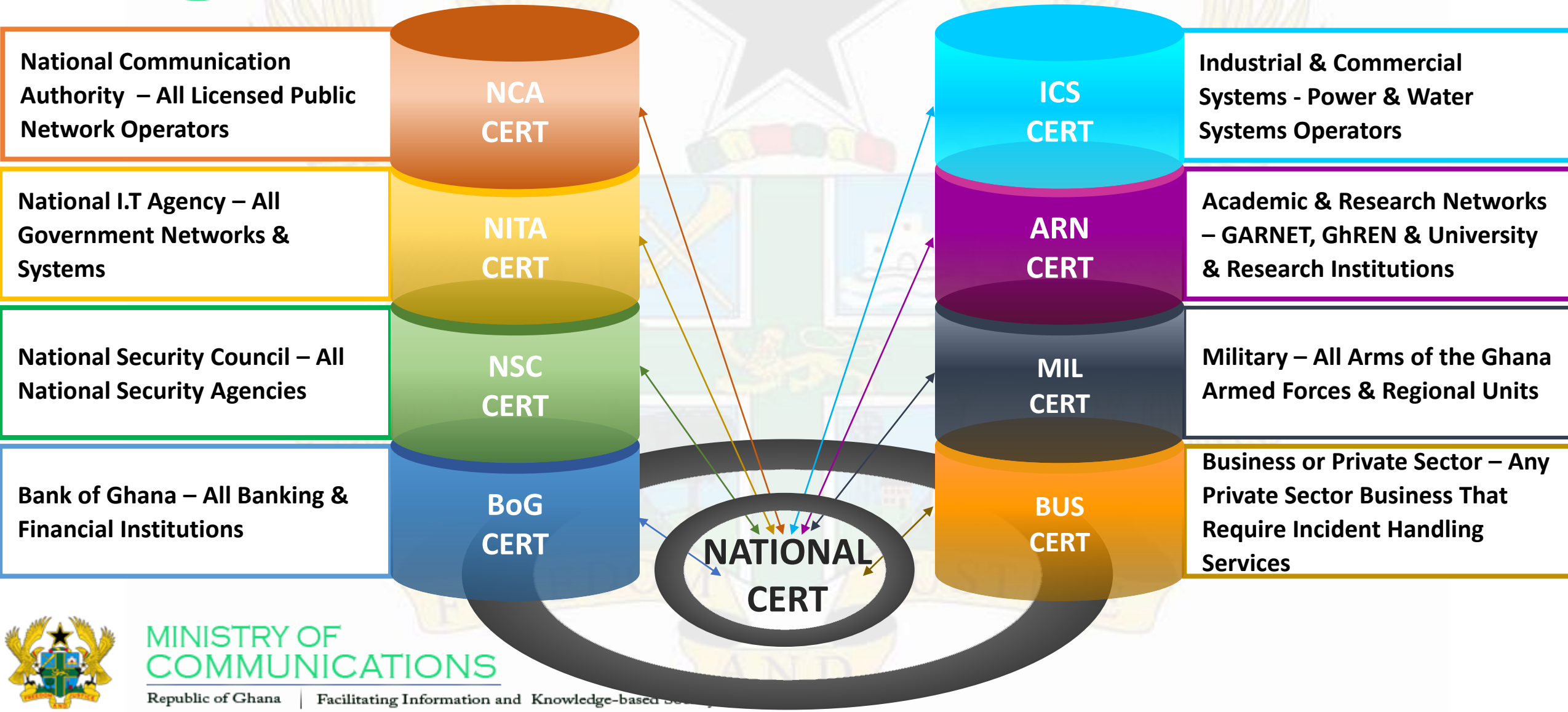


CRITICAL NATIONAL INFORMATION INFRASTRUCTURE





CERT ECOSYSTEM

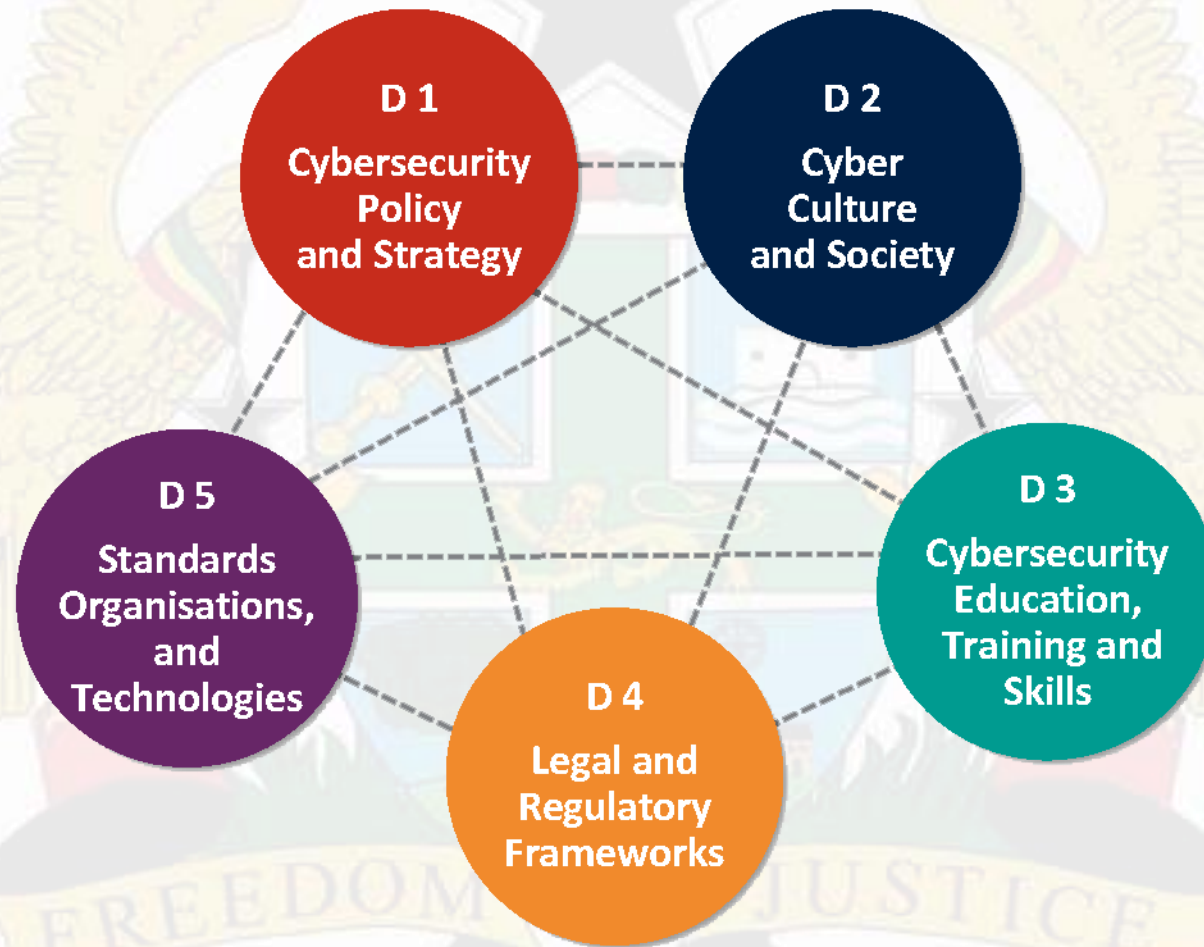


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CYBERSECURITY CMM - DIMENSIONS





CYBERSECURITY CMM - STAKEHOLDERS ENGAGED

Public Sector Institutions

Criminal Justice Sector

ICT & Telecommunications Sector

Financial Sector

Critical National Information Infrastructure (CNII) Owners

Academia

Professional Societies

Private Sector

Non-governmental Organisations (NGOs) & International Community



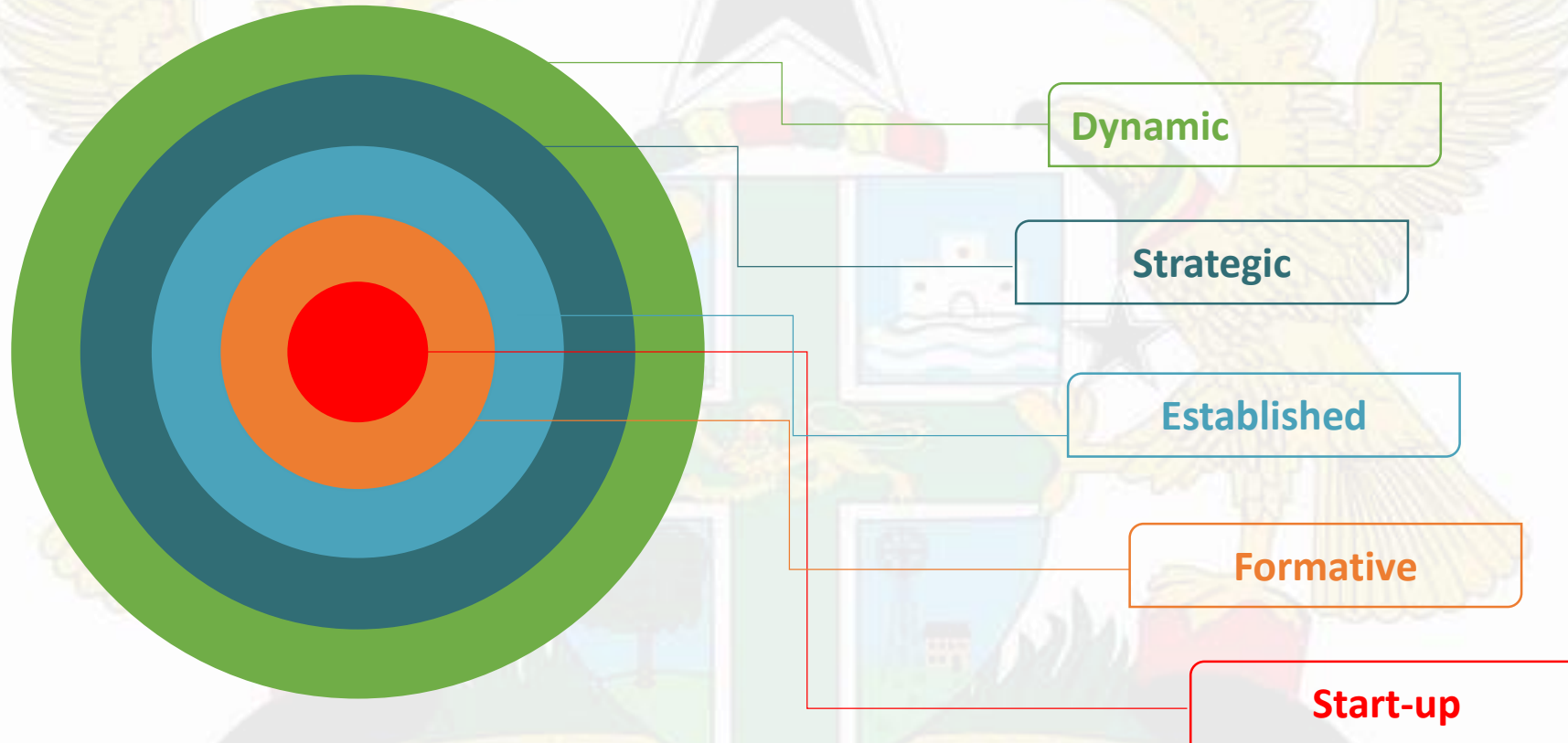
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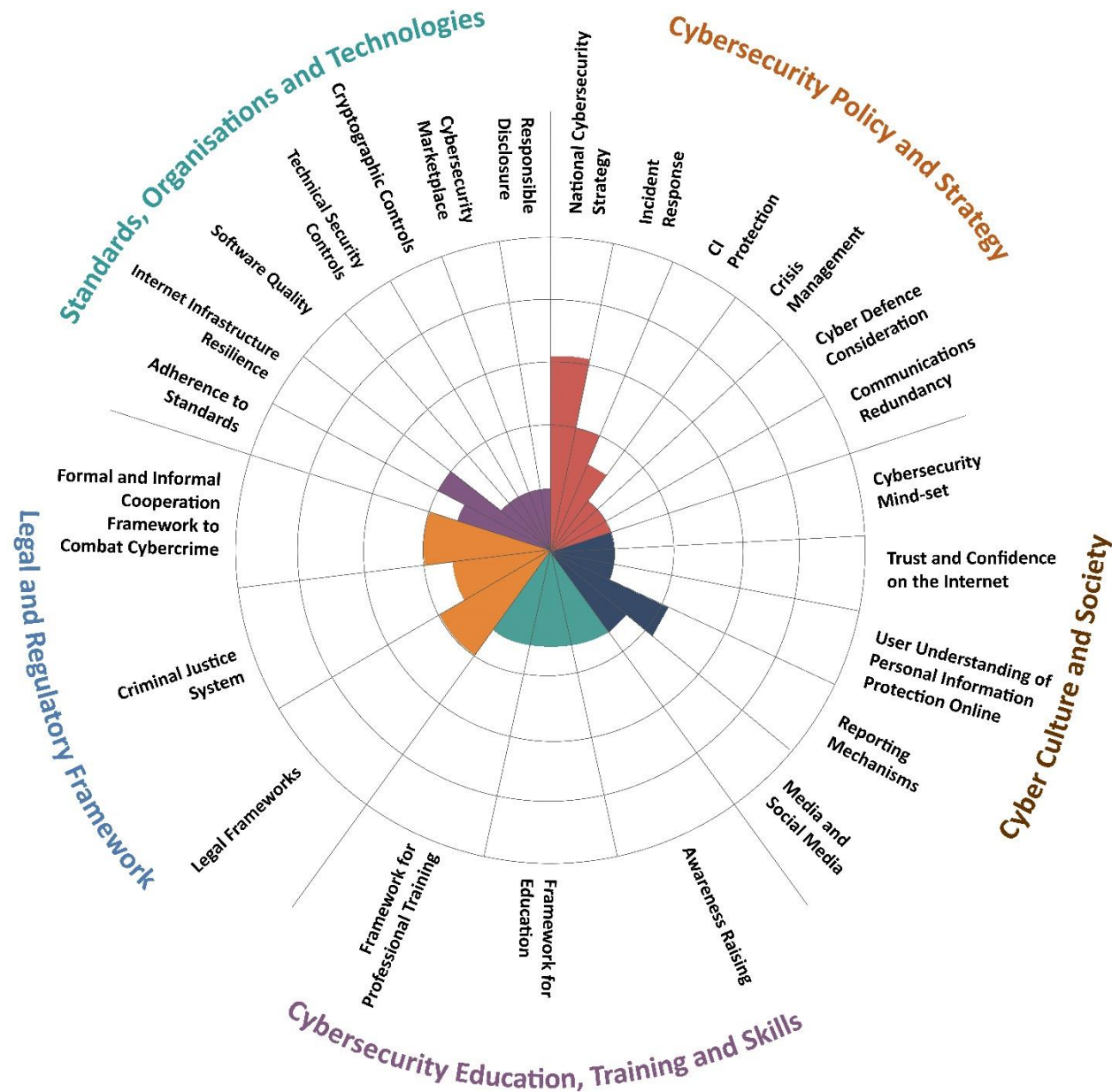


CMM METHODOLOGY - STAGES OF MATURITY





CYBERSECURITY CMM - FINDINGS





NATIONAL CYBERSECURITY AWARENESS PROGRAMME



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NATIONAL CYBERSECURITY AWARENESS PROGRAMME



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VICE PRESIDENT BAWUMIA LAUNCHES 2018 CYBER SECURITY AWARENESS PROGRAMME



Vice President Bawumia launching the National Cyber Security Awareness programme in Accra

Vice President Dr Mahamudu Bawumia has launched the 2018 National Cyber security Awareness Programme with a call for concerted and coordinated efforts to fight the ills of cyber crime to curb the growing menace.



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