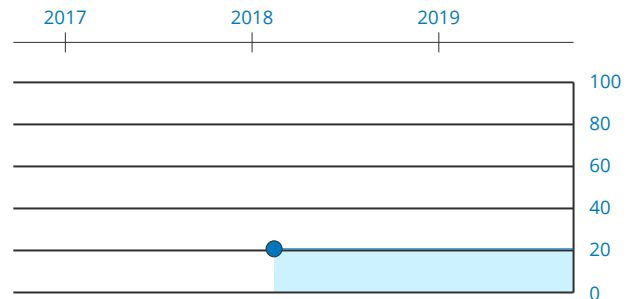


# 99. Ghana 20.78

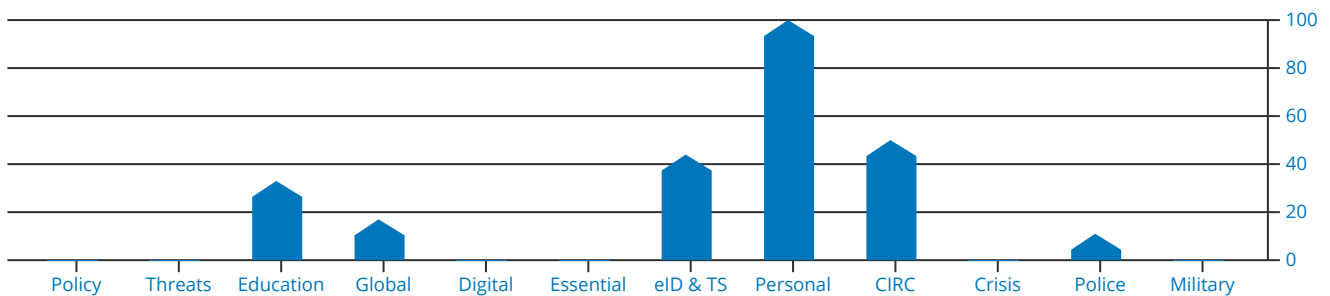
Population **27.7 million**  
 Area (km<sup>2</sup>) **238.5 thousand**  
 GDP per capita (\$) **4.6 thousand**

### NCSI DEVELOPMENT TIMELINE



<b>99<sup>th</sup> National Cyber Security Index</b>	21 %
<b>89<sup>th</sup> Global Cybersecurity Index</b>	44 %
<b>116<sup>th</sup> ICT Development Index</b>	41 %
<b>102<sup>nd</sup> Networked Readiness Index</b>	50 %

### NCSI FULFILMENT PERCENTAGE



### GENERAL CYBER SECURITY INDICATORS

<p><b>1. Cyber security policy development</b></p> <p>1.1. Cyber security policy unit</p> <p>1.2. Cyber security policy coordination format</p> <p>1.3. Cyber security strategy</p> <p>1.4. Cyber security strategy implementation plan</p>	<p>0 ————— 7 (0%)</p> <p>0 ————— 3</p> <p>0 ————— 2</p> <p>0 ————— 1</p> <p>0 ————— 1</p>
<p><b>2. Cyber threat analysis and information</b></p> <p>2.1. Cyber threats analysis unit</p> <p>2.2. Public cyber threat reports are published annually</p> <p>2.3. Cyber safety and security website</p>	<p>0 ————— 5 (0%)</p> <p>0 ————— 3</p> <p>0 ————— 1</p> <p>0 ————— 1</p>
<p><b>3. Education and professional development</b></p> <p>3.1. Cyber safety competencies in primary or secondary education</p> <p>3.2. Bachelor's level cyber security programme</p> <p>3.3. Master's level cyber security programme</p> <p>3.4. PhD level cyber security programme</p> <p>3.5. Cyber security professional association</p>	<p>3 ————— 9 (33%)</p> <p>0 ————— 1</p> <p>0 ————— 2</p> <p>0 ————— 2</p> <p>0 ————— 2</p> <p>0 ————— 2</p>
<p><b>4. Contribution to global cyber security</b></p> <p>4.1. Convention on Cybercrime</p> <p>4.2. Representation in international cooperation formats</p> <p>4.3. International cyber security organisation hosted by the country</p> <p>4.4. Cyber security capacity building for other countries</p>	<p>1 ————— 6 (17%)</p> <p>0 ————— 1</p> <p>0 ————— 1</p> <p>0 ————— 3</p> <p>0 ————— 1</p>

## BASELINE CYBER SECURITY INDICATORS

### 5. Protection of digital services

- 5.1. Cyber security responsibility for digital service providers
- 5.2. Cyber security standard for the public sector
- 5.3. Competent supervisory authority



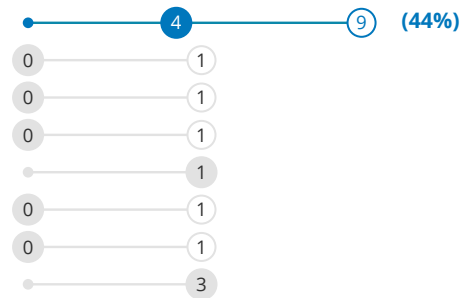
### 6. Protection of essential services

- 6.1. Operators of essential services are identified
- 6.2. Cyber security requirements for operators of essential services
- 6.3. Competent supervisory authority
- 6.4. Regular monitoring of security measures



### 7. E-identification and trust services

- 7.1. Unique persistent identifier
- 7.2. Requirements for cryptosystems
- 7.3. Electronic identification
- 7.4. Electronic signature
- 7.5. Timestamping
- 7.6. Electronic registered delivery service
- 7.7. Competent supervisory authority



### 8. Protection of personal data

- 8.1. Personal data protection legislation
- 8.2. Personal data protection authority



## INCIDENT AND CRISIS MANAGEMENT INDICATORS

### 9. Cyber incidents response

- 9.1. Cyber incidents response unit
- 9.2. Reporting responsibility
- 9.3. Single point of contact for international coordination



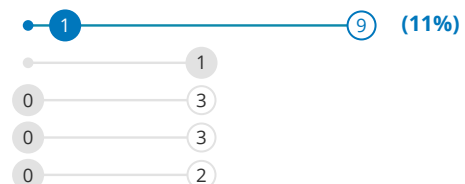
### 10. Cyber crisis management

- 10.1. Cyber crisis management plan
- 10.2. National-level cyber crisis management exercise
- 10.3. Participation in international cyber crisis exercises
- 10.4. Operational support of volunteers in cyber crises



### 11. Fight against cybercrime

- 11.1. Cybercrimes are criminalised
- 11.2. Cybercrime unit
- 11.3. Digital forensics unit
- 11.4. 24/7 contact point for international cybercrime



### 12. Military cyber operations

- 12.1. Cyber operations unit
- 12.2. Cyber operations exercise
- 12.3. Participation in international cyber exercises

