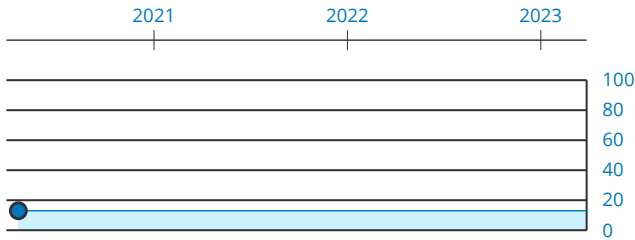


138. Madagascar 12.99

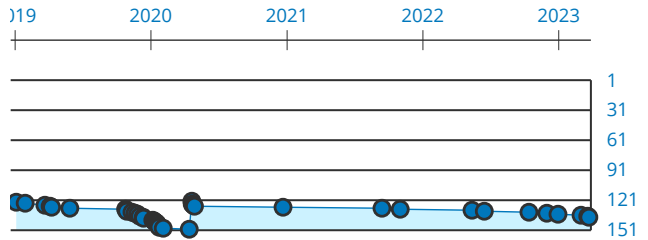
Population **22.4 million**
 Area (km²) **587.0 thousand**
 GDP per capita (\$) **1.6 thousand**

138th National Cyber Security Index ██████████ 13 %
124th Global Cybersecurity Index ██████████ 23 %
169th ICT Development Index ██████████ 17 %
120th Networked Readiness Index ██████████ 29 %

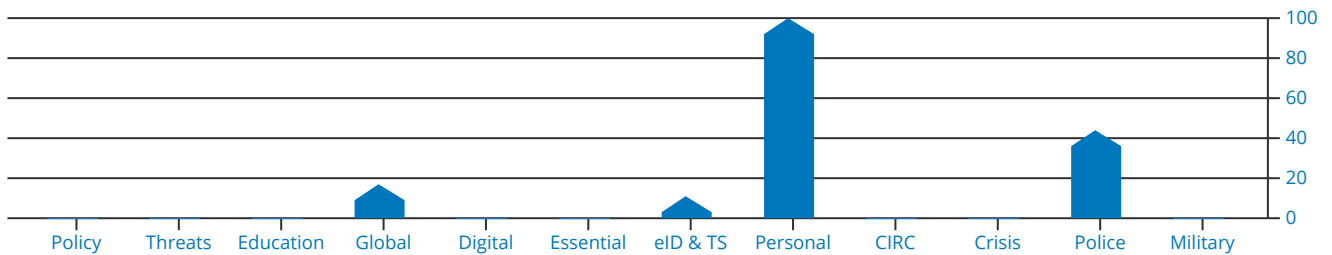
NCSI DEVELOPMENT TIMELINE



RANKING TIMELINE



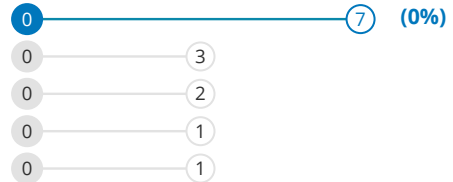
NCSI FULFILMENT PERCENTAGE



GENERAL CYBER SECURITY INDICATORS

1. Cyber security policy development

- 1.1. Cyber security policy unit
- 1.2. Cyber security policy coordination format
- 1.3. Cyber security strategy
- 1.4. Cyber security strategy implementation plan



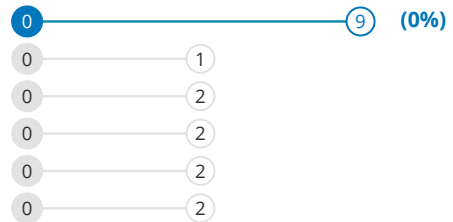
2. Cyber threat analysis and information

- 2.1. Cyber threats analysis unit
- 2.2. Public cyber threat reports are published annually
- 2.3. Cyber safety and security website



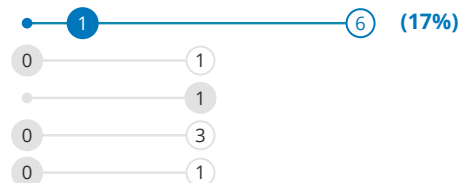
3. Education and professional development

- 3.1. Cyber safety competencies in primary or secondary education
- 3.2. Bachelor's level cyber security programme
- 3.3. Master's level cyber security programme
- 3.4. PhD level cyber security programme
- 3.5. Cyber security professional association



4. Contribution to global cyber security

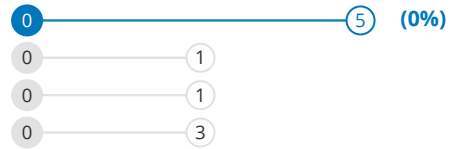
- 4.1. Convention on Cybercrime
- 4.2. Representation in international cooperation formats
- 4.3. International cyber security organisation hosted by the country
- 4.4. Cyber security capacity building for other countries



BASELINE CYBER SECURITY INDICATORS

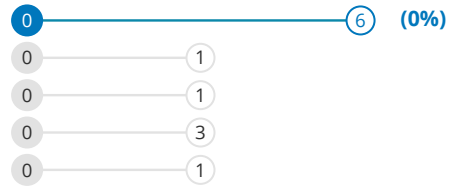
5. Protection of digital services

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



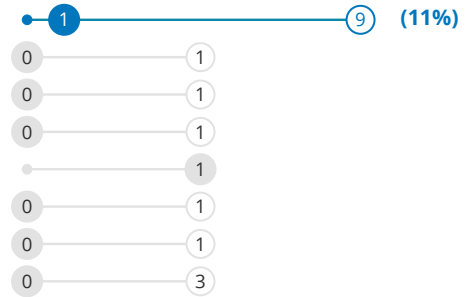
6. Protection of essential services

- 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

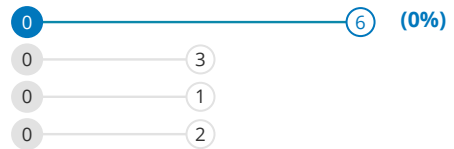
- 8.1. Personal data protection legislation
- 8.2. Personal data protection authority



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



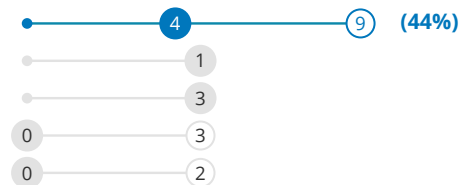
10. Cyber crisis management

- 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

