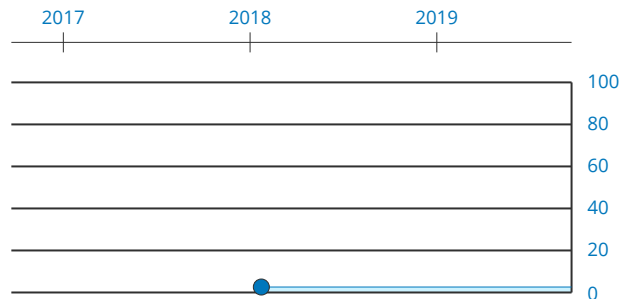


129. Madagascar 2.60

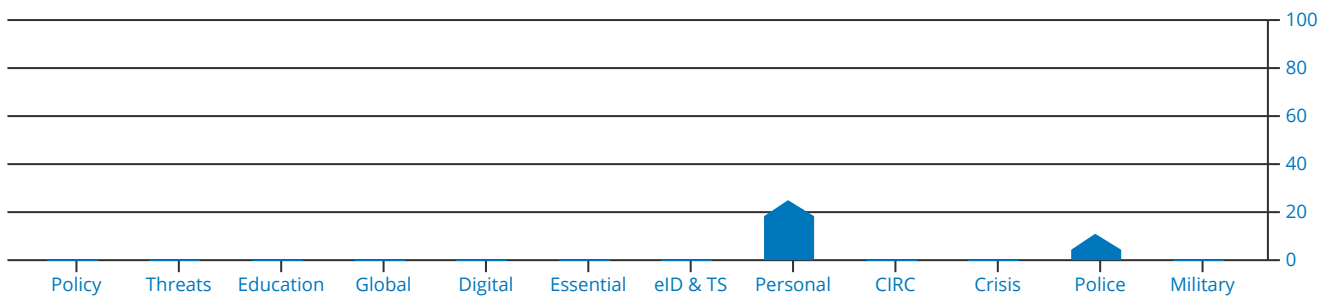
Population **22.4 million**
 Area (km²) **587.0 thousand**
 GDP per capita (\$) **1.6 thousand**

NCSI DEVELOPMENT TIMELINE



- 129th National Cyber Security Index** ██████████ 3 %
- 119th Global Cybersecurity Index** ██████████ 20 %
- 169th ICT Development Index** ██████████ 17 %
- 135th Networked Readiness Index** ██████████ 37 %

NCSI FULFILMENT PERCENTAGE



GENERAL CYBER SECURITY INDICATORS

<p>1. Cyber security policy development</p> <ul style="list-style-type: none"> 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 	<p>0 ————— 7 (0%)</p> <p>0 ————— 3</p> <p>0 ————— 2</p> <p>0 ————— 1</p> <p>0 ————— 1</p>
<p>2. Cyber threat analysis and information</p> <ul style="list-style-type: none"> 2.1. Cyber threats analysis unit 2.2. Public cyber threat reports are published annually 2.3. Cyber safety and security website 	<p>0 ————— 5 (0%)</p> <p>0 ————— 3</p> <p>0 ————— 1</p> <p>0 ————— 1</p>
<p>3. Education and professional development</p> <ul style="list-style-type: none"> 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 	<p>0 ————— 9 (0%)</p> <p>0 ————— 1</p> <p>0 ————— 2</p> <p>0 ————— 2</p> <p>0 ————— 2</p> <p>0 ————— 2</p>
<p>4. Contribution to global cyber security</p> <ul style="list-style-type: none"> 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 	<p>0 ————— 6 (0%)</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



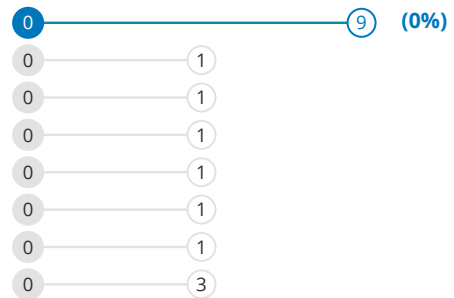
6. Protection of essential services

- 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

