CRAN

Communications Regulatory Authority of Namibia

NAM-CSIRT Stakeholder Engagement Meeting

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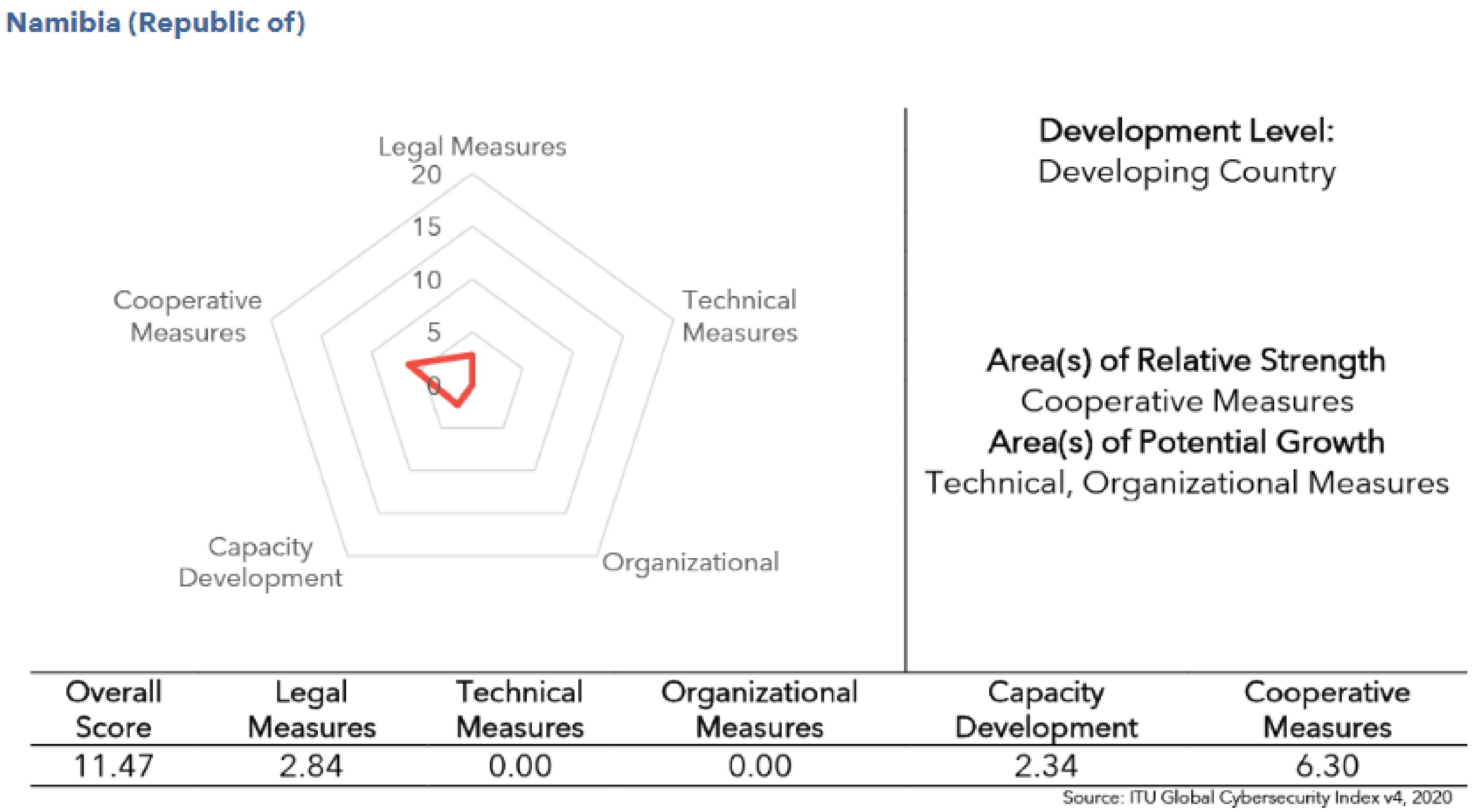
Talking Points

- ❑ Introduction
- ❑ Country Profile
- ❑ Cybersecurity & NAM-CSIRT Background
- ❑ CIRT Operations – Services
- ❑ CSIRT-Constituency Collaboration

Country Profile – ITU 2020



Namibia (Republic of)

Development Level:
Developing Country

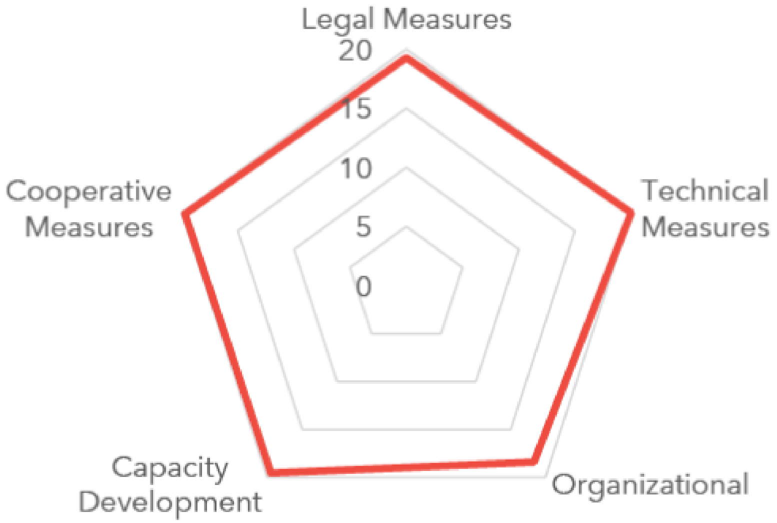
Area(s) of Relative Strength
Cooperative Measures
Area(s) of Potential Growth
Technical, Organizational Measures

Overall Score	Legal Measures	Technical Measures	Organizational Measures	Capacity Development	Cooperative Measures
11.47	2.84	0.00	0.00	2.34	6.30

Source: ITU Global Cybersecurity Index v4, 2020

Country Profile – Mauritius Comparison – ITU 2020

Mauritius (Republic of)



Development Level:
Developing Country, Small Island Developing States (SIDS)

Area(s) of Relative Strength
Technical, Cooperative, Capacity Development Measures

Area(s) of Potential Growth
Organizational Measures

Overall Score	Legal Measures	Technical Measures	Organizational Measures	Capacity Development	Cooperative Measures
96.89	19.27	20.00	18.38	19.54	19.70

Source: ITU Global Cybersecurity Index v4, 2020

Background

- ❑ The Malabo Convention – 2014 -(Electronic Transactions, Data Protection, Cybersecurity & Cybercrime)
- ❑ The Readiness Report for CIRT Establishment – (ITU, 2017) – Recommendation to establish CIRT
- ❑ National Cybersecurity Strategy & Awareness Raising Plan 2022-2027
  - 5 Pillars
  - Enabling Legal Framework & Enforcement – Cyber Crime Bill
  - Building National Capacity on Cybersecurity – NAM-CSIRT
  - Cybersecurity Awareness
  - National & International Cooperation
- ❑ CRAN NAM-CSIRT Initiatives
  - NSCIRT Implementation Plan 2020 (revised in 2023)
  - Phase Zero
    - Published RFC2350
    - Identified Alert sources – Shadowserver
    - Budget & Funding Request
    - Job Descriptions (Manager, Incident Handler & Vulnerability Analyst)
    - Relationships with other CIRTS
    - Cooperation/Coordination Agreements with neighbouring countries (Botswana & RSA)
    - Capacity Building - Cyberdrills

Background

- ❑ **CRAN NAM-CSIRT Preparatory Work**
  - ❑ **Human Resource Capacity (CIRT Manager)**
  - ❑ **Infrastructure (Office, Hardware & Software)**
  - ❑ **Engagements with industry experts (Cyber4DEV) & Other CIRTs (BWCirt)**

Cybersecurity & NAM-CSIRT Background

- Gap
  - Human Resource Capacity Building for NAM-CSIRT (analysts, responders, etc.)
  - Develop Policy Instruments:
    - Internal Operational Policies (e.g. Security Policy, Information Handling Policy, Communication Policy, Backup Policy, etc.) – SIM3 Implementation
    - Incident Response Plan
    - Standard Operating Procedures for each incident type e.g. Malware, Sextortion, Machine Compromise, etc.)
  - SIM3 Baseline – Self Assessment -> External Audit
  - Develop Constituency: Register owners and operators of Critical Infrastructure & Critical Information Infrastructure.
  - International and Local Collaboration and Association (ongoing) – FIRST, AfricaCert, SEI

CIRT Operations

❑ Envisaged Service Offering of NAM-CSIRT (FY2024/25)

RE-ACTIVE SERVICES

- Alerts and warnings
- Incident Handling
  - Incident analysis
  - Incidence response coordination
- Artifact Handling
  - Artifact analysis

PRO-ACTIVE SERVICES

- Announcements
- Technology Watch (trends & future threats)

SECURITY QUALITY MANAGEMENT SERVICES

- Awareness Building

Source: SOFTWARE ENGINEERING INSTITUTE | CARNEGIE MELLON UNIVERSITY

🟩 Mature

🟧 Introduce

CIRT Operations

❑ Envisaged Service Offering of NAM-CSIRT (FY2025/26)

RE-ACTIVE SERVICES

- 🟩 Alerts and warnings
- Incident Handling
  - 🟩 Incident analysis
  - 🟧 Incidence response support
  - 🟩 Incidence response coordination
- Vulnerability Handling
  - 🟧 Vulnerability analysis
- Artifact Handling
  - 🟩 Artifact analysis

PRO-ACTIVE SERVICES

- 🟩 Announcements
- 🟩 Technology Watch (trends & future threats
- Security Audit or Assessments
- 🟧 Infrastructure Review

SECURITY QUALITY MANAGEMENT SERVICES

- 🟧 Security Consulting
- 🟩 Awareness Building

Source: SOFTWARE ENGINEERING INSTITUTE | CARNEGIE MELLON UNIVERSITY

🟩 Mature

🟧 Introduce

NAM-CSIRT-Constituent Collaboration

- Information Sharing
    - Threat Intelligence
    - Incident Reporting
- Awareness Campaigns (e.g. by invitation)
- Capacity Building (Workshops & CyberDrills)
- Consultations
    - Cyber Technology and Trend Reviews
    - State of Cybersecurity Nationally and Globally
- Training (Academic Institutions)
- MoUs

CIRT-Constituent Collaboration

No matter how well your network is protected, eventually there will be an incident that you are not prepared to handle by yourself. It could be because the problem is beyond your technical capabilities, or it could be because you have not been empowered to make the necessary decisions (SANS Institute)

END