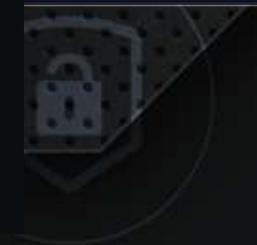




MALAYSIA
**CYBER SECURITY
STRATEGY**



2020
2024



NACSA

The National Cyber Security Agency (NACSA) was officially established in February 2017 under the aegis of the National Security Council. The national lead agency for cyber security matters, with the objectives of securing and strengthening Malaysia's resilience in facing the threats of cyber attacks, by co-ordinating and consolidating the nation's best experts and resources in the field of cyber security.



ROLES & RESPONSIBILITIES



Developing and implementing national-level cyber security policies and strategies.

Protecting Critical National Information Infrastructures (CNII).

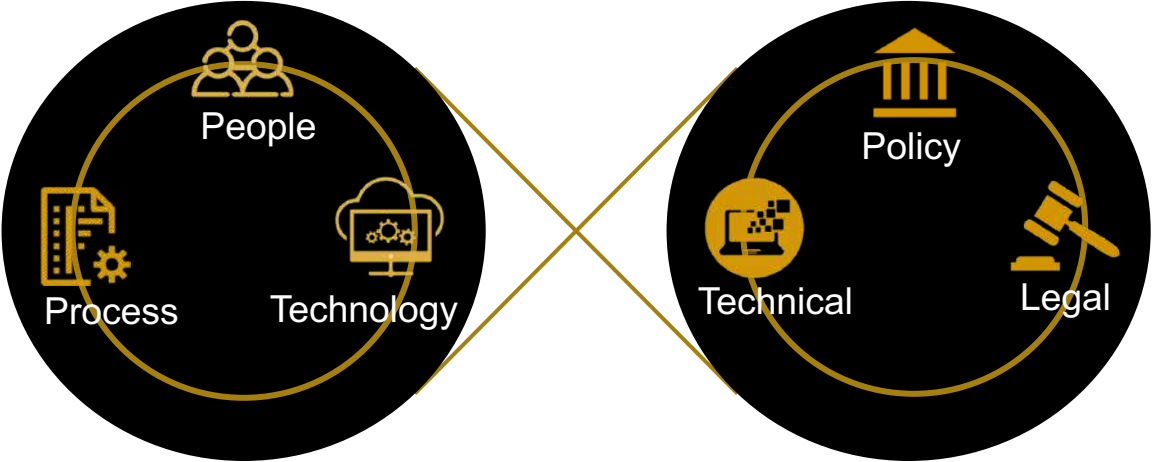
Formulating strategic approach towards combatting cyber crimes.

Strengthening international collaboration in cybersecurity.

Promoting cyber security awareness, acculturation and capacity-building.



A comprehensive strategy to mitigate evolving **cyber threats** through an integrated approach and an effective model of public-private partnership.





Development & Implementation

MALAYSIA CYBER SECURITY STRATEGY

Lessons Learnt & Areas of Improvement from the implementation of National Cyber Security Policy



- National, Sectoral & Organization
- Cyber Security as National Agenda
- Top down approach (Board Issue)
- Security by Design
- Star Rating/Recognition

- Continuous Engagement
- Specific Target
- Effective Coordination & Information Sharing Mechanism
- Management Level Contacts
- Effective Public-Private Partnership

- Clear role of agencies
- Role of Sector Lead
- Role of Head of Organization

- Awareness & Knowledge
- Understanding the risk
- Support & Commit



MALAYSIA
**CYBER SECURITY
STRATEGY**

Vision

Malaysia cyberspace that is **Secure**, **Trusted** and **Resilient** while at the same time **fostering economic prosperity** and the **well-being of its citizen**

Mission

Fortifying local capabilities to **Predict**, **Detect**, **Deter** and **Respond** to cyber threats by strengthening our cyber security governance, nurturing competent people and supporting best practices

5 STRATEGIC
PILLARS

12
Strategies

35
Action Plans

113
Programmes



MALAYSIA CYBER SECURITY STRATEGY

Cyber Threats

Cyber Attacks on
Critical Infrastructures

Cyber Espionage

Data Breaches

Intrusion

Online Fraud

Exploitation

Terrorist use of Internet

All Critical National Information Infrastructure (CNII) or National system and services are well-protected and secured

All Government system, data and services are protected, trusted and secured

All SMEs in a business supply chain are protected and secured

Cyber criminal able to be prosecuted in an acceptable period

OBJECTIVES

Build a trusted cyber environment for national digital initiatives and investors confident



MALAYSIA

CYBER SECURITY STRATEGY

5 STRATEGIC PILLARS

A comprehensive strategy to mitigate evolving cyber threats through an integrated approach and an effective model of public-private partnership.

1

Effective

Governance & Management

2

Strengthening

Legislative Framework and Enforcement

3

Catalysing

World Class Technology, R & D and Industry

4

Enhancing

Capacity and Capability Building, Awareness and Education

5

Strengthening

Global Collaboration

ABOUT





MALAYSIA
**CYBER SECURITY
STRATEGY**

EVERYONE



WHO
INVOLVE



MALAYSIA CYBER SECURITY STRATEGY

STRATEGY

1

Enhancing National Cyber Security Governance

STRATEGY

2

Improving Organization Management And Business Operation

STRATEGY

3

Strengthening Cyber Security Incident

National

Sectoral

Organization

- Protection of Critical Infrastructure through **Active Cyber Defence**
- Strengthen Incident Management
- Cyber Risk Framework
- Effective Coordination
- Policies, Guidelines, Compliance
- Information Sharing
- Clear Roles & Responsibilities
- Supply Chain Security
- Technology Security
- Protection of SMEs
- Industries Involvement



1

Effective Governance & Management





MALAYSIA CYBER SECURITY STRATEGY

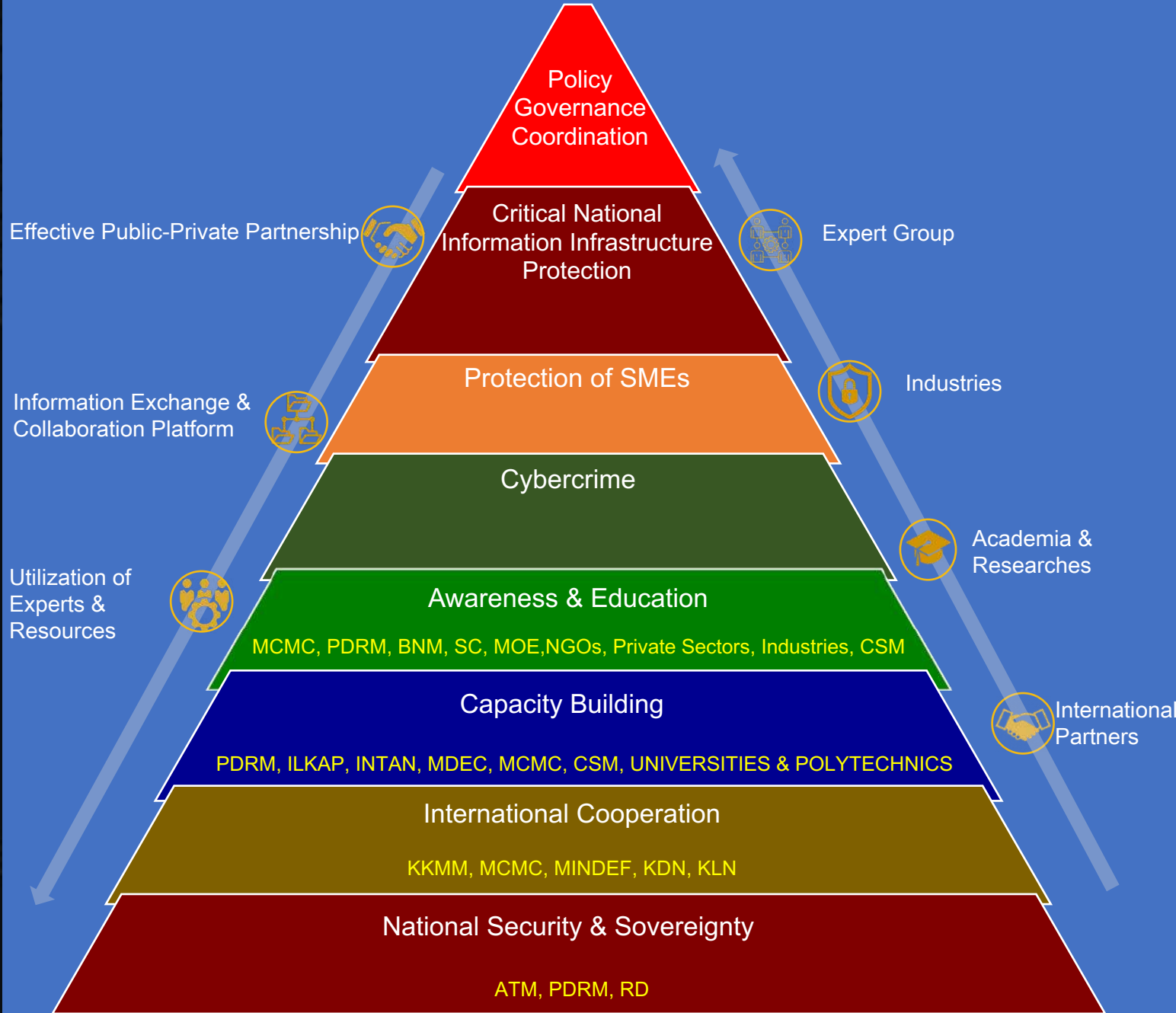
THE ECOSYSTEM

Clear Roles & Responsibilities

New Partnership Model



1 Effective Governance & Management





MALAYSIA
**CYBER SECURITY
STRATEGY**



Whole of Nation
Approach

1

**Effective Governance
& Management**





MALAYSIA CYBER SECURITY STRATEGY



STRATEGY

4

Enhancing Malaysia's Cyber Laws in Addressing Current And Emerging Threats



Coordinated and an Integrated National Approach



Knowledge and Skills



Adequate Tools



Comprehensive SOP

- Enhancing regional and international co-operation through existing bilateral and multilateral cooperation



STRATEGY

5

Enhancing the Capacity and Capability of Cyber Crime Enforcement

- Strengthen cyber crime enforcement capacity & capability in managing cyber crime, advanced threats and organised syndicates
- Review existing laws
- Cyber Security Act



2 Strengthening Legislative Framework & Enforcement



MALAYSIA CYBER SECURITY STRATEGY

STRATEGY

6

Spurring the National Cyber Security R&D Programme

STRATEGY

7

Promoting the Creation of Local Technologies and a Competitive Local Industry

Research & Development Roadmap

Local Industry Development

Stimulate and Encourage Cross Discipline Research and Collaboration

Stimulate the creation of new local cyber security ventures through the establishment of cyber security start-up / ideation hub.

Spearheading Innovation in the Areas of Cyber Security

Promote the use of local ICT security products and services and support the growth and expansion of the local cyber security industry.

Creating a Conducive Environment for Innovation and R&D.

Shared Centre of Excellence

Collaboration Platform
Government- Academia-Industry

Generate local innovations

- Scaling-up existing cyber security technology solutions
- Drive local industry

3

Catalysing World Class Innovation, Technology, R&D and Industry Development



MALAYSIA CYBER SECURITY STRATEGY

STRATEGY

8

Enhance National Cyber Security Capacity & Capability Building

Develop National Cyber Security Capacity and Capability Building Plan.

Develop a comprehensive plan to build adequate tools and technology through an integrated approach.

STRATEGY

9

Enhance Cyber Security Awareness

Improve cyber security awareness programme implementation approach through the implementation of the National Cyber Security Awareness Master Plan

STRATEGY

10

Nourish Cyber Security Knowledge Through Education

Develop cyber security subject as one of the syllabuses at the primary, secondary and tertiary level through collaboration with Ministry of Education

Talent Development

- More industry-oriented courses and specialisations and thereby increase the number of marketable university graduate students in cyber security-related fields of study
- Specialised programmes will be established to produce more local talent
- Talent development initiatives through new talent, up-skilling and re-skilling.

4

Enhancing Capacity & Capability Building, Awareness and Education





MALAYSIA CYBER SECURITY STRATEGY

STRATEGY

11

Strengthening International Collaboration and Cooperation in Cyber Security Affairs

STRATEGY

12

Demonstrating Malaysia's commitment in promoting a secure, stable and peaceful cyberspace to uphold international security

5

Strengthening Global Collaboration



UNITED NATIONS



- Address cyber security as a priority in foreign policy.
- Align domestic and International cyber security efforts.
- Recognise cyber security as one of the elements in diplomatic and international affairs
- Actively participate and contribute in key international cyber fora and strategically collaborate with international partners.
- Identify and establish formal & informal cooperation in cyber security
- Shape a concerted national position on norms, rules and principles of responsible behaviour of states and how international law applies in cyber space
- Continue efforts in driving regional Confidence Building Measures (CBMs)



MALAYSIA
**CYBER SECURITY
STRATEGY**

IMPLEMENTATION OF NATIONAL DIGITAL INITIATIVES

Trusted & Secured

Security by Design

Supply Chain Security

Comprehensive Security Measures





MALAYSIA
**CYBER SECURITY
STRATEGY**

Securing Malaysia Cyberspace

THANK YOU

2020
2024



NACSA

AGENCI KESELAMATAN SIBER NEGARA
NATIONAL CYBER SECURITY AGENCY