CyberSecurity MALAYSIA
An agency under MOSTI

Ministry of Science, Technology and Innovation

INTRODUCTION TO NATIONAL CYBER SECURITY POLICY

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Securing Our Cyberspace

CYBER THREATS

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Technology Related Threats

Hack Threat

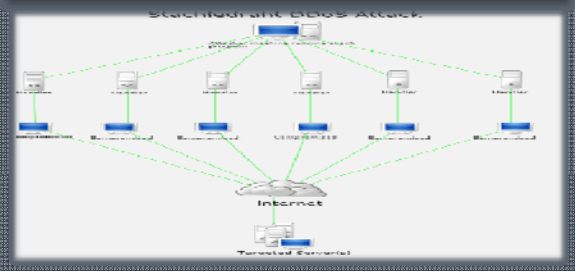
Intrusion

Fraud

Harassment

Malicious Code

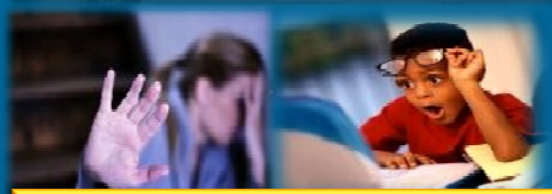
Denial of Service Attack



Cyber Content Related Threats

Threats to National Security

Sedition / Defamation



Online Porn

Hate Speech

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THE NATIONAL CYBER SECURITY POLICY - Objective

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2005 The National Cyber Security Policy formulated by MOSTI

2006 NCSP Adoption and Implementation

The policy recognises the critical and highly interdependent nature of the CNII and aims to develop and establish a comprehensive programme and a series of frameworks that will ensure the effectiveness of cyber security controls over vital assets

Objectives:

- Address The Risks To The Critical National Information Infrastructure
- To Ensure That Critical Infrastructure Are Protected To A Level That Is Commensurate With The Risks
- To Develop And Establish A Comprehensive Program And A Series Of Frameworks

THE NATIONAL CYBER SECURITY POLICY - CNII Sectors

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DEFENCE & SECURITY

- Ministry of Defense, Military
- Ministry of Home Affairs, Police

TRANSPORTATION

- Ministry of Transport

BANKING & FINANCE

- Ministry of Finance
- Central Bank
- Securities Commission

HEALTH SERVICES

- Ministry of Health

EMERGENCY SERVICES

Ministry of Housing & Local Municipality

CRITICAL NATIONAL INFORMATION INFRASTRUCTURE

Assets (real & virtual), systems and functions that are vital to the nation that their incapacity or destruction would have a devastating impact on

- *National economic strength*
- *National image*
- *National defense & security*
- *Government capability to function*
- *Public health & safety*

ENERGY

- Energy Commission
- Electricity Co., Petroleum Company

INFORMATION & COMMUNICATIONS

- Ministry of Information, Communications & Culture
- Malaysia Communication & Multimedia Commission

GOVERNMENT

- Malaysia Administrative, Modernisation and Management Planning Unit

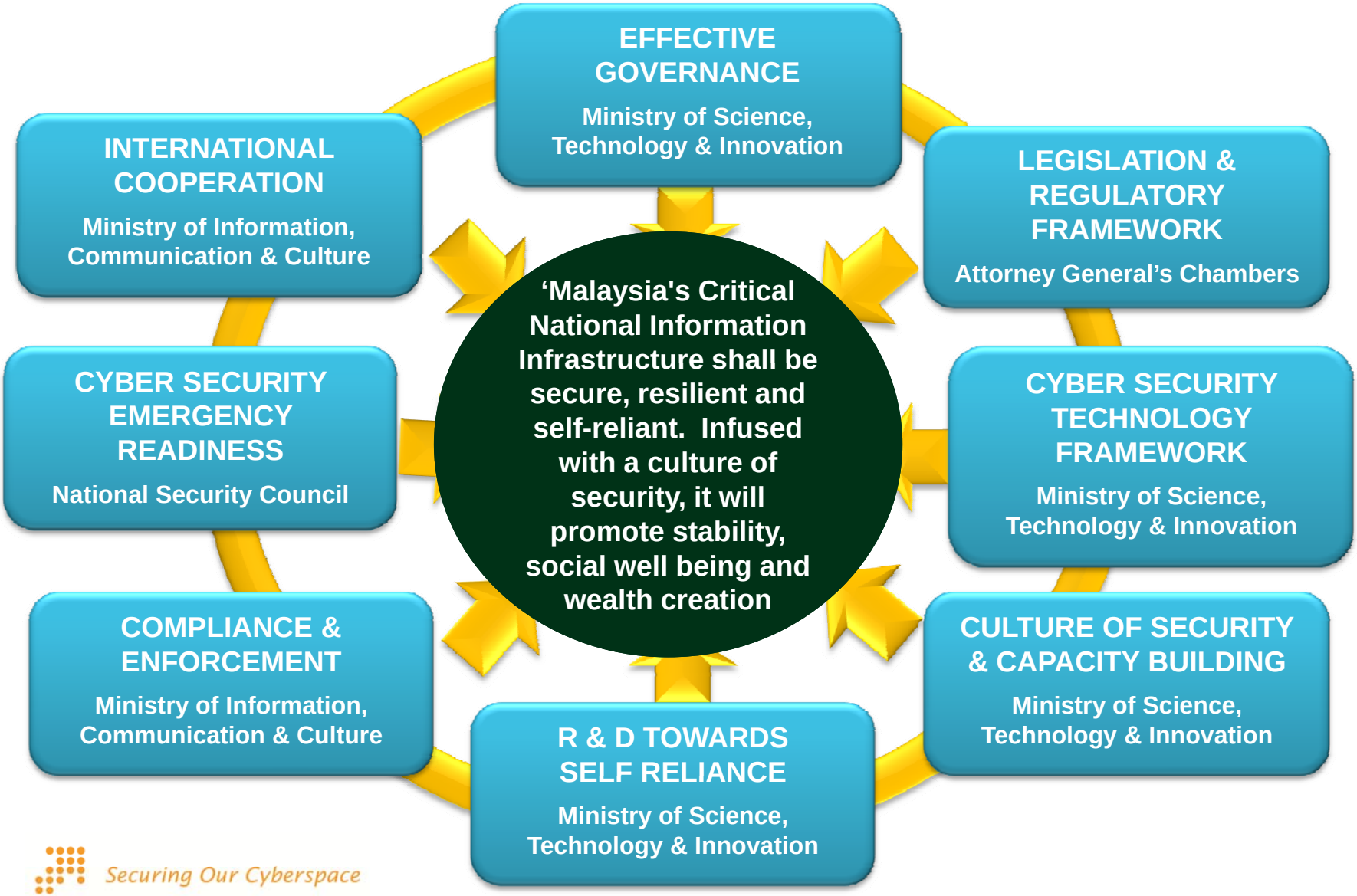
FOOD & AGRICULTURE

- Ministry of Agriculture

WATER

- National Water Service Commission

THE NATIONAL CYBER SECURITY POLICY - Policy Thrust



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THE NATIONAL CYBER SECURITY POLICY
- Policy Thrust 3: Focus Area

End State

Expansion of national certification scheme for information security management and assurance

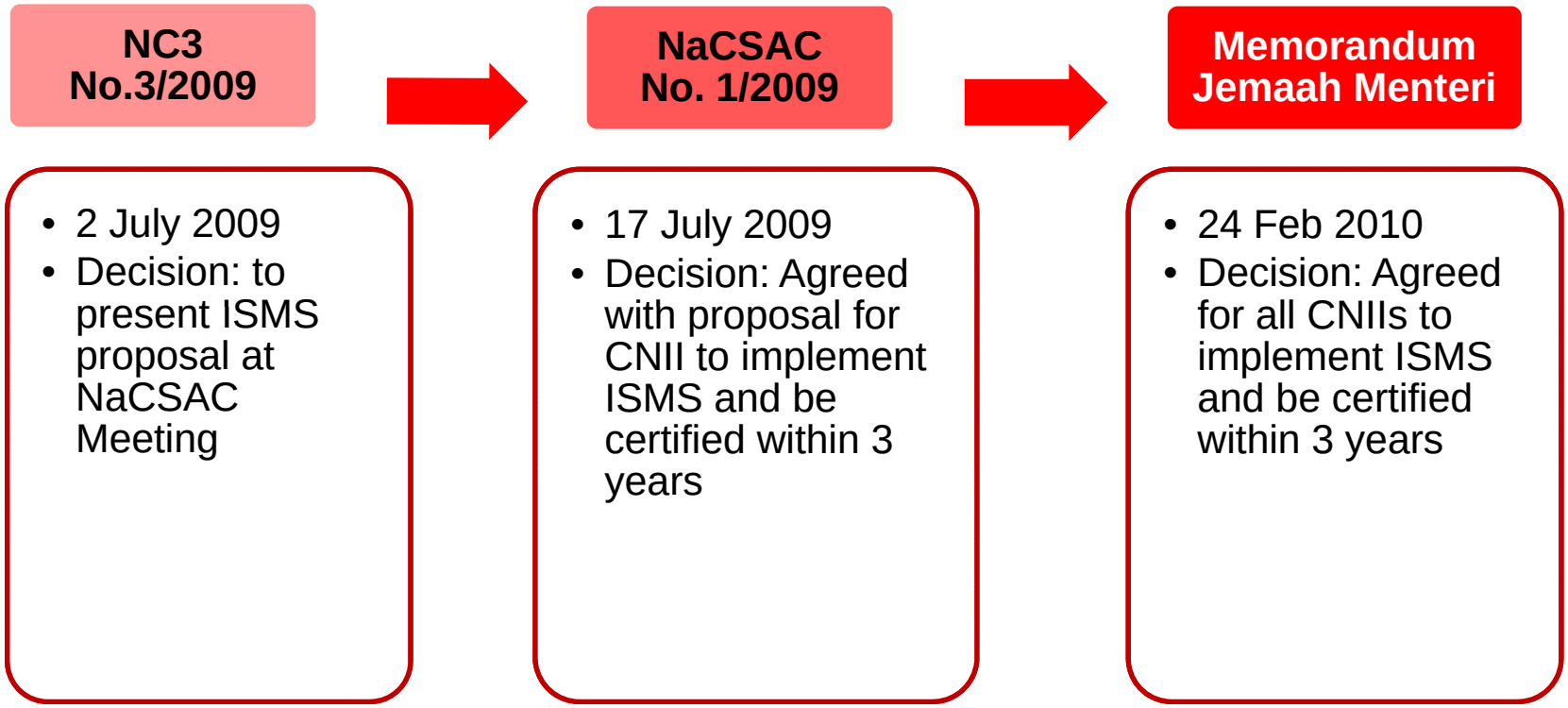
1. **Information Security Management System, ISMS (MS ISO/IEC 27001:2007)**
   Towards ensuring compliance with Information Security Standards among CNII agencies/organisations.*

2. **Common Criteria (ISO 15408)**
   To increase global competitiveness of local security products as well as enabling adoption among local CNII agencies/organisations.*

3. **Technology Specific Guidelines**
   To develop technology specific guidelines to be adopted by CNII agencies/organisation.*

4. **Digital Forensic Lab Facilities**
   To increase the technological capabilities to resolve cyber related crimes

BACKGROUND
- Milestone



MANDATE
- Extract from Memorandum Jemaah Menteri

1) The Memorandum Jemaah Menteri has agreed:

*a) Supaya dilaksanakan Pensijilan **MS ISO/IEC 27001** Pengurusan Sistem Keselamatan Maklumat (Information Security Management System - ISMS) untuk sektor-sektor Prasarana Maklumat Kritikal Negara (Critical National Information Infrastructure - CNII);*

b) Supaya pelaksanaan Pensijilan ISMS ini diselaraskan oleh kementerian-kementerian dan agensi-agensi regulatori yang bertanggungjawab terhadap sektor-sektor CNII negara; dan

c) Supaya organisasi-organisasi CNII mendapat Pensijilan ISMS dalam tempoh 3 tahun.

ISO/IEC 27001:2005
- Critical Success Factor

Support & Commitment

- visible support and commitment from top management,
- decision on the **right scope**,
  - i.e. to cover delivery of critical products & services to the nation

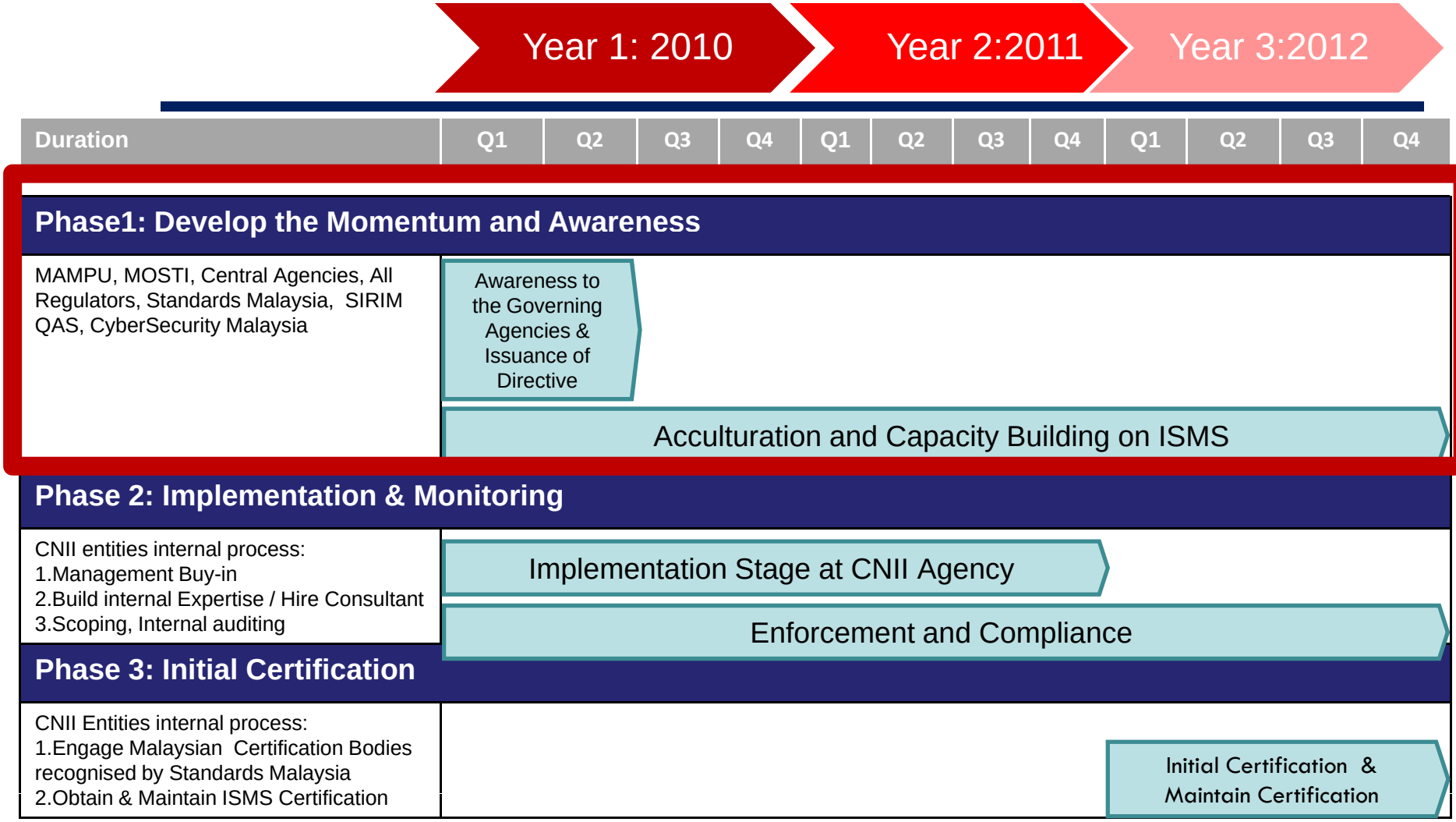
Awareness & Motivation

- providing appropriate awareness, training, and education.

Effective Compliance & Enforcement

- guidance on information security policy and procedures to all employees to ensure continuous improvements.

OVERVIEW OF MASTER PLAN AND IMPLEMENTATION TIMELINE



CNII– Critical National Information Infrastructure
*Year 1 from date of MJM (24 Feb 2010)

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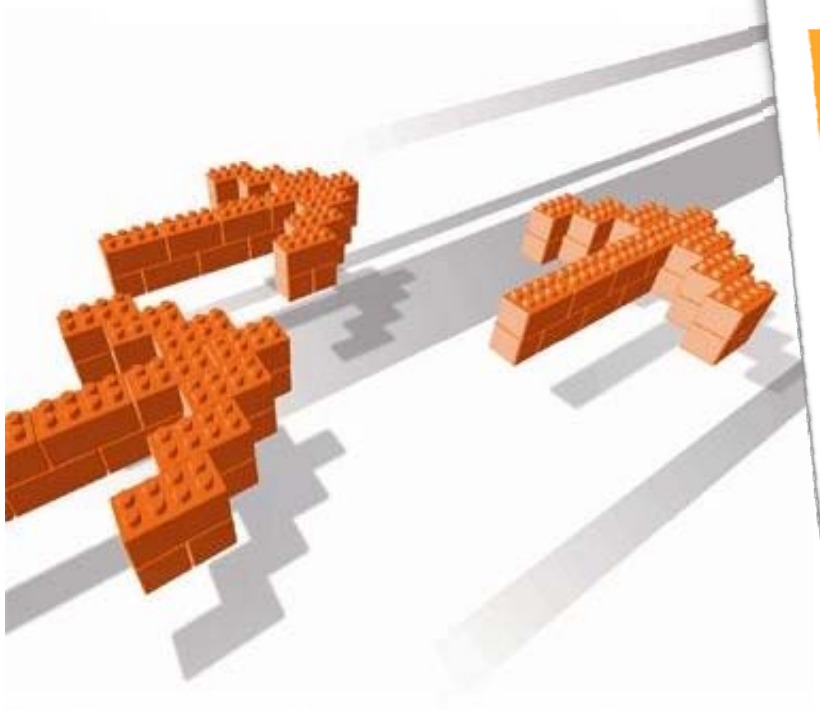

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Thank You

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