Office of the Commissioner of Electronic Communications & Postal Regulation

OCECPR

Cybersecurity Strategy of the Republic of Cyprus

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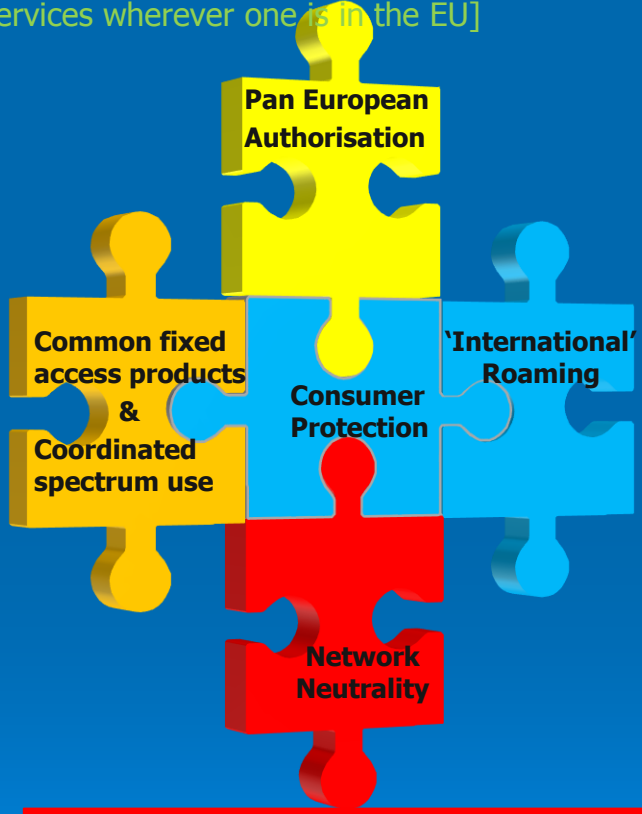
Overview

- Information society and OCECPR vision
- Cybersecurity Definition
- European Policies & OCECPR responsibilities
- National Cybersecurity Strategy - Actions
- Cooperation Framework
- Collaboration between stakeholders

Actions [EE, ITU, ICANN] vs OCECPR

EC Vision: Regulation on Connected Continent

['...(to realise) two key EU Treaty Principles: the freedom to provide and to consume (digital) services wherever one is in the EU]

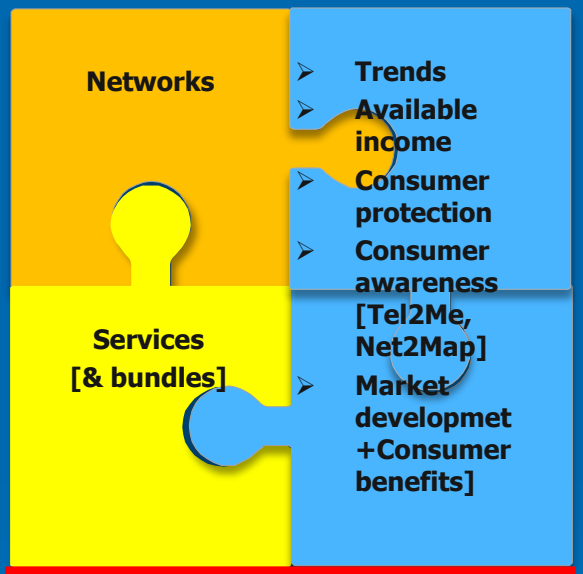


European Parliament

EU Council

Legislation / Regulation

CY: Information Society [OCECPR Responsibilities]



Legislation / Regulation

Network neutrality [2B2T – Mlab]
Self regulation

EU: ENISA, FoP Cyber, HLIG

World: ITU, ICANN

Open Internet

EU Cybersecurity Strategy [NIS, Cybercrime]

EU position on Internet Governance [GAC-ICANN, IANA]

Open Internet

CY Cybersecurity Strategy [NIS, CERT, Risk Assessment, Awareness, Interdependencies]

CY position on Internet Governance [GAC-ICANN, IANA], .cy, .κπ

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Cybersecurity: Field

Percentage cost for external consequences	
Information loss	43%
Business disruption	36%
Revenue loss	17%
Equipment damages	4%

(source Ponemon Institute 2013)

Network and Information Security

10% probability of a major CII breakdown in the next 10 years (Source WEF)

Cybersecurity

We define it as the security of networked systems and information that operate in cyberspace, usually with Internet connectivity – the term also encompasses the safe use of these systems by operators and end users –it covers the all important pillars of NIS, cybercrime, cyber defence and international affairs.

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Cybercrime

Cyberdefence

Activity	Cost as of % of GDP
Maritime Piracy	0.02% (global)
Transnational crime	1.2% (global)
Counterfeiting/Piracy	0.89% (global)
Pilferage	1.5% (US)
Car crashes	1.0% (US)
Narcotics	0.9% (global)
Cybercrime	0.8% (global)

(source Mcafee June 2014)

Global economic cost of over $400B (Source Mcafee June 2014)

Technological Resources → Cooperation with industry and academia

European Policy - International cooperation on Cybersecurity

European Policies & OCECPR Responsibilities

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European Policies, Legislation, Cybersecurity Strategy

Digital Agenda for Europe

European Cybersecurity Strategy

NIS

Cyber crime

Cyber defence

Electronic Communications Framework

REGULATION **EU526/2013**-European Union Agency for Network & Information Security **(ENISA)**

Proposal for a Network and Information Security **NIS Directive** (at present dealt by the WP TELE, Council, EU Parliament)

Dirs 2009/140/EC, 2009/136/EC, Framework 21/2002, **Art.13a,b** Pers. Data Prot. 58/2002/EC **Art.4**

REGULATION **EU 611/2013** Notification of personal data breaches

OCECPR Responsibilities: NIS → Cybersecurity

Notifications

Art.13a,b PI 371/2013

Art.4 REG EU 611/2013

Business Continuity Contingency Plans PI 253/2011

CSIRTs/CERTs PI 358/2010

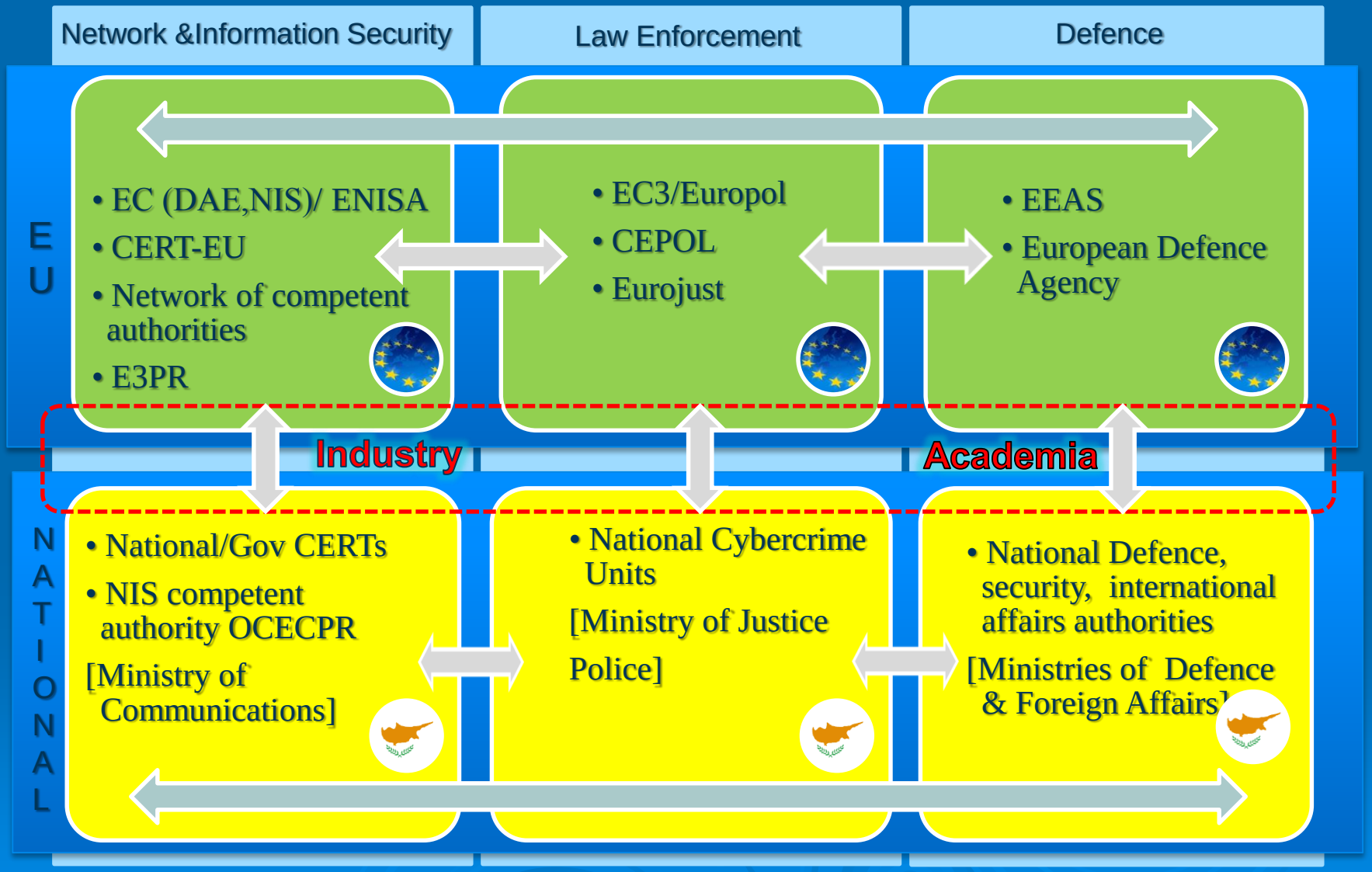
CIIP–Critical Information Infrastructure Protection

Crisis Management

Cybersecurity Strategy of the Republic of Cyprus Coordination

"Cy Cyber Crime Center of excellence"

Cybersecurity Strategy - Pillars



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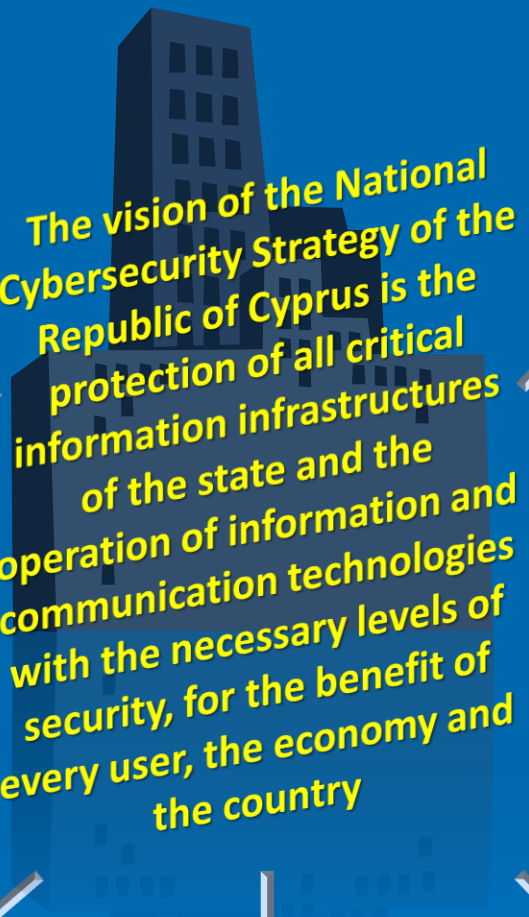
Vision of the Cybersecurity Strategy



The vision of the National Cybersecurity Strategy of the Republic of Cyprus is the protection of all critical information infrastructures of the state and the operation of information and communication technologies with the necessary levels of security, for the benefit of every user, the economy and the country

Electricity,
production
transmission
distribution

Natural Gas/ Oil,
production, refining
transmission
distribution

Water, Food
processing
supply

Tranports
Civil Aviation
Maritime

Public Health
hospitals
ambulances
medication

Financial sector

banking sector

Security services
Police, Army

Public sector

Electronic Communications
Networks
Information Services

Education
Awareness
Training
Trust

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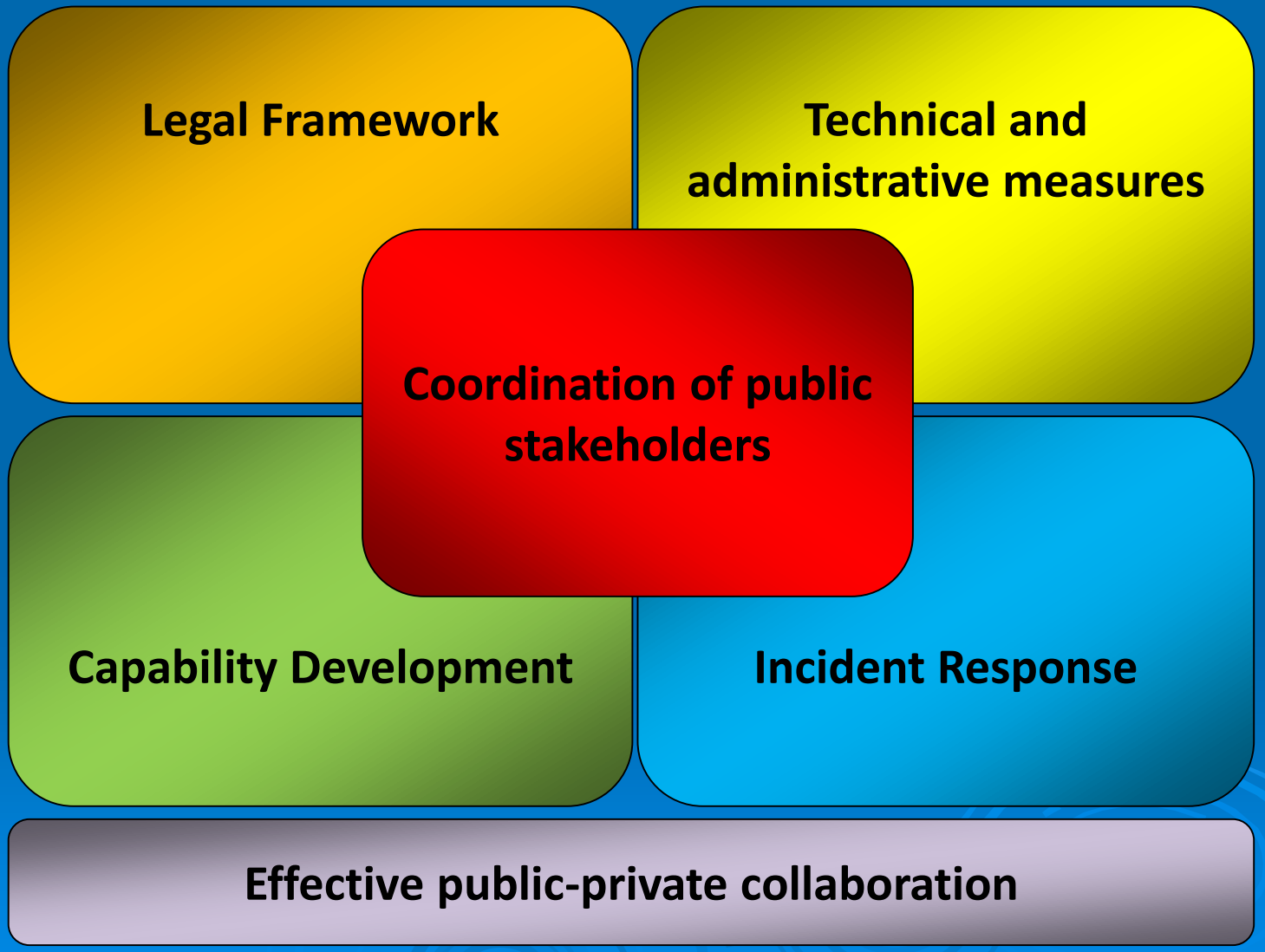
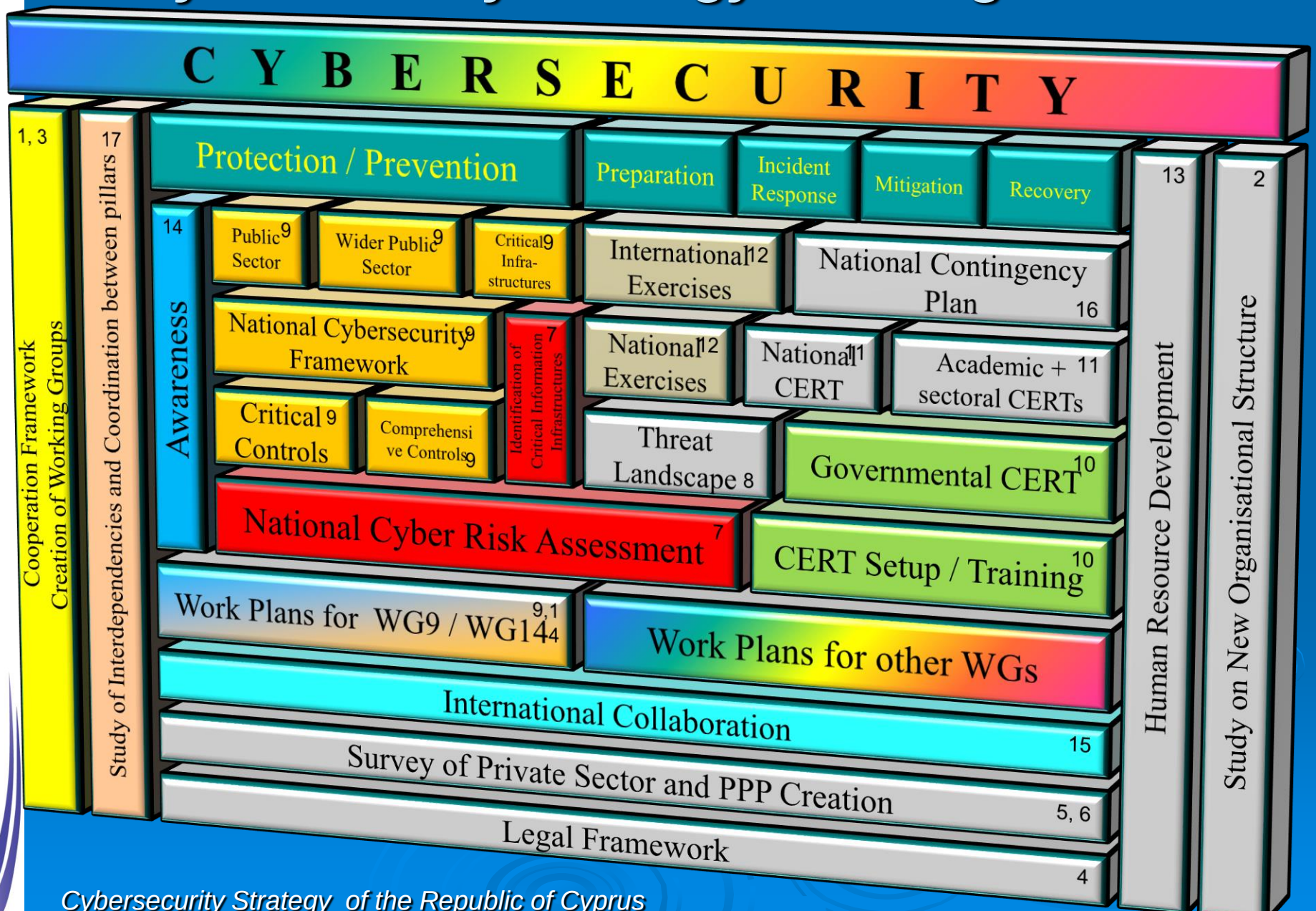
NCS Priority areas



Cybersecurity Strategy Building blocks



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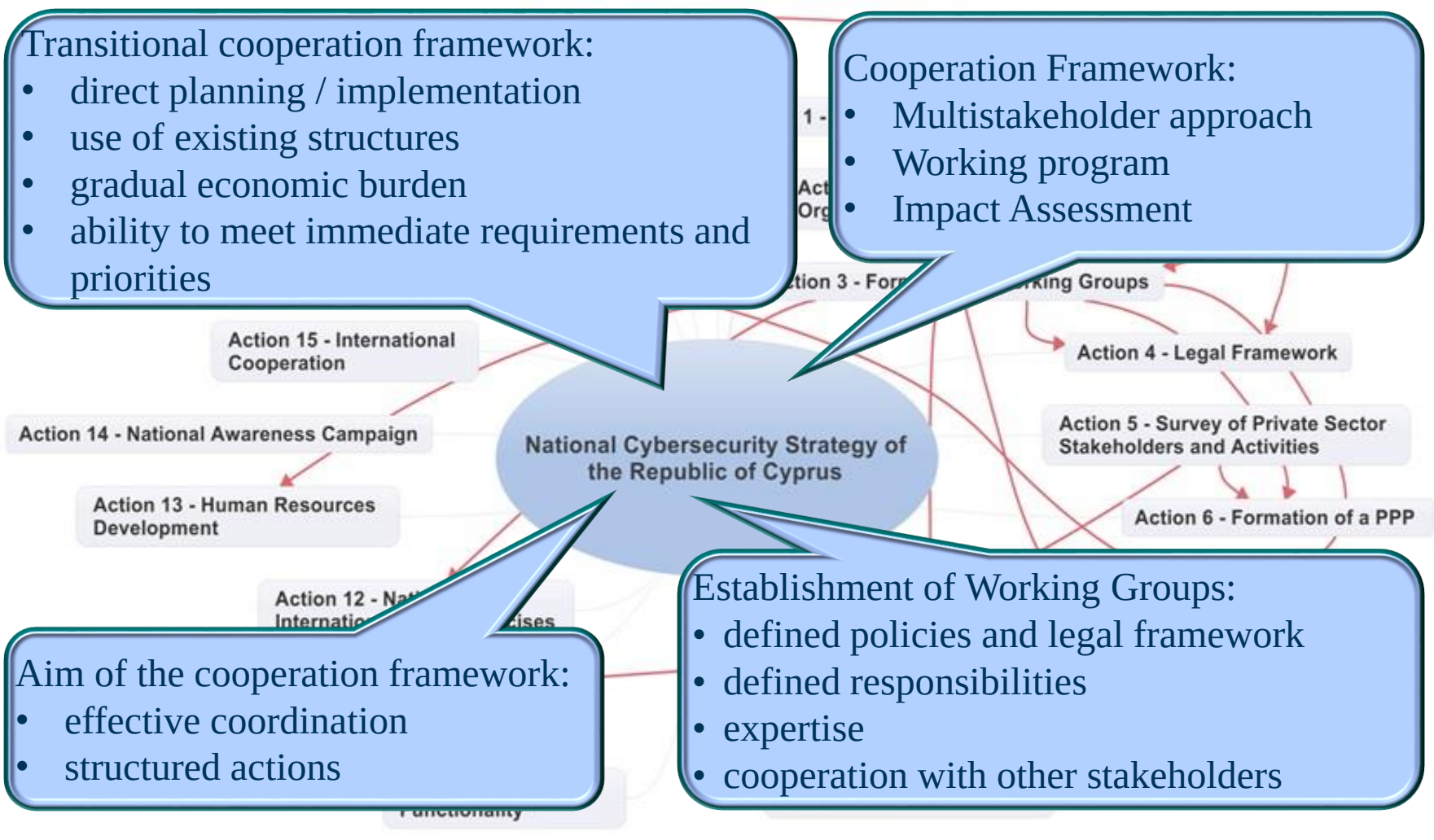
Interdependencies – Cooperation Framework

Transitional cooperation framework:
- direct planning / implementation
- use of existing structures
- gradual economic burden
- ability to meet immediate requirements and priorities

Cooperation Framework:
- Multistakeholder approach
- Working program
- Impact Assessment



Aim of the cooperation framework:
- effective coordination
- structured actions

Establishment of Working Groups:
- defined policies and legal framework
- defined responsibilities
- expertise
- cooperation with other stakeholders

Indicative interdependencies between actions

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Fields of Cooperation

- Development and exchange of Know-how
- Exchanging of best practices
- Providing advice in Developing Synergies
- Awareness Raising

- CERT cooperation
- Early warning mechanisms (complementary to national mechanisms)
- National, Pan-European, International exercises
- Communication mechanisms - ENISA SOPs

- Cooperation for the prevention, detection, analysis and response capability
- Training
- Research and development
- Standardization
- Harmonization in the legal and regulatory framework

Thank You!

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