

## **Strengthening Cyber Security Measures Cultural Dimensions in Cyberspace**

Delivered at ARF Workshop on Measures to Enhance Cyber Security –  
Legal and Cultural Aspects  
11-12 September 2013  
Beijing , China

**Dr. Basuki Yusuf Iskandar**  
Secretary General  
Ministry of Communication and Information Technology



# **AGENDA**

**Introduction**

**National Cyber Security  
Strategies**

**Cultural Dimensions in  
Cyber Space**

**Discussion**

# What is Cyberspace



## **Council of Europe, Cybercrime Convention (2001)**

[...] By connecting to communication and information services users create a kind of COMMON SPACE, called "cyber-space", which is used for legitimate purposes but may also be the subject of misuse [...].



## **UNITAR (2005)**

“Cyber-space is part of the common heritage of mankind. Access to its benefits is a legitimate right for all peoples. The object of legislation is not to limit that right, but only to limit or eliminate all abuses of that right.”

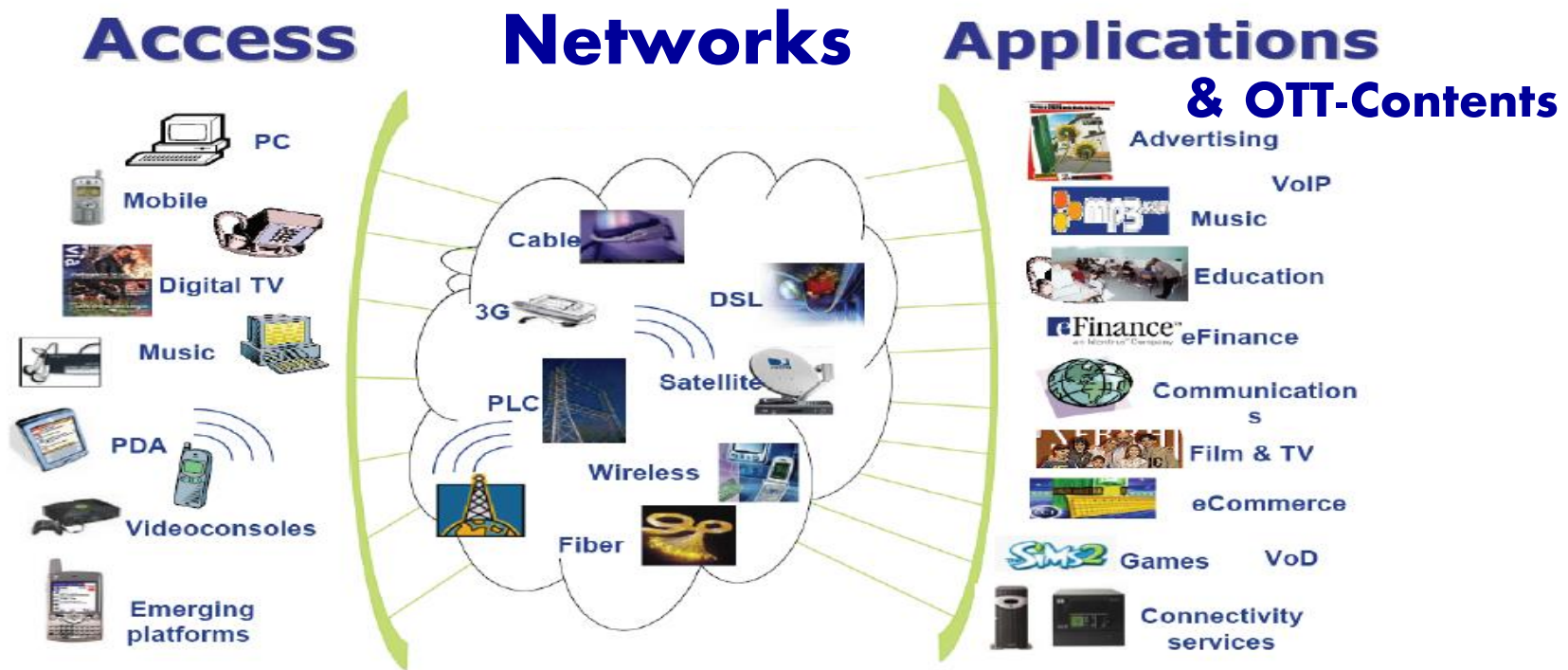


## **President Barack Obama, May 29, 2009**

“This world—cyberspace—is a world that we depend on every single day... [it] has made us more interconnected than at any time in human history.”

**Quite useful start for a definition**

# Our Thoughts : Cyberspace



The Development of technology “ Access, Network, Applications, and Content” creates new space called Cyberspace ”



# **AGENDA**

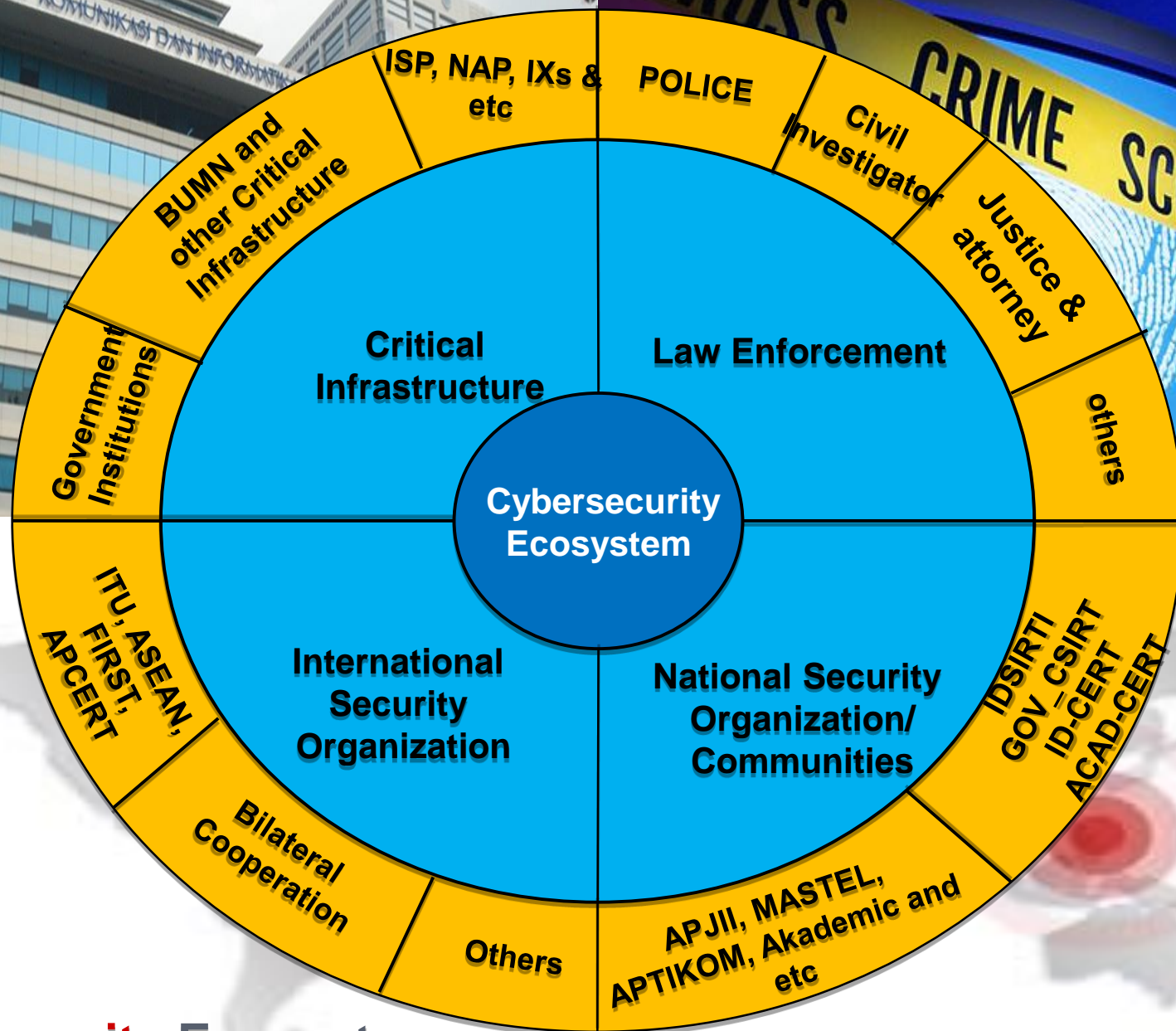
**Introduction**

**National Cyber Security  
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**Cybersecurity Ecosystem**

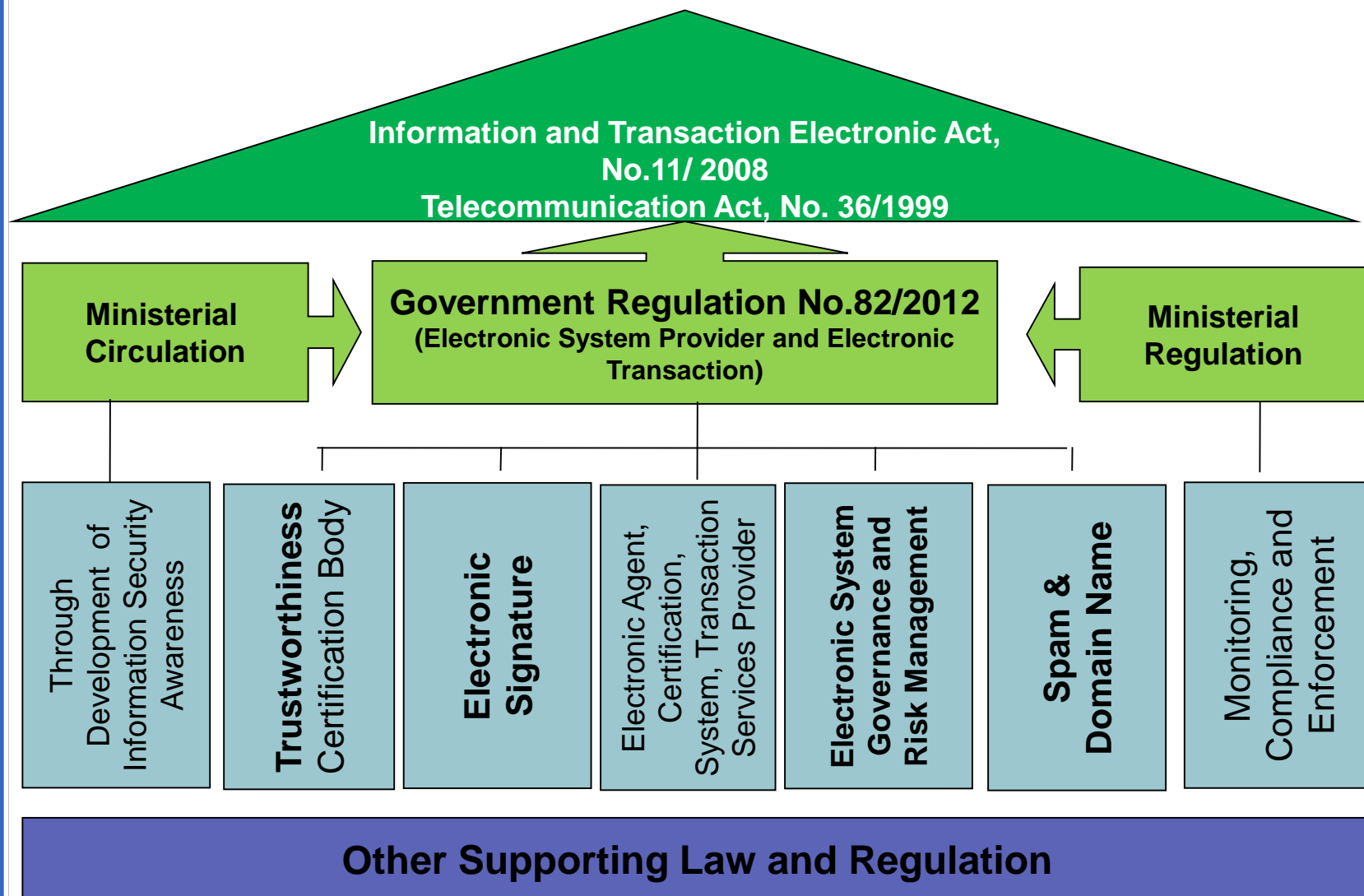
# Cybersecurity Strategy

## Cybersecurity is broader than just Cybercrime





# Cyber Security **Legal Framework**

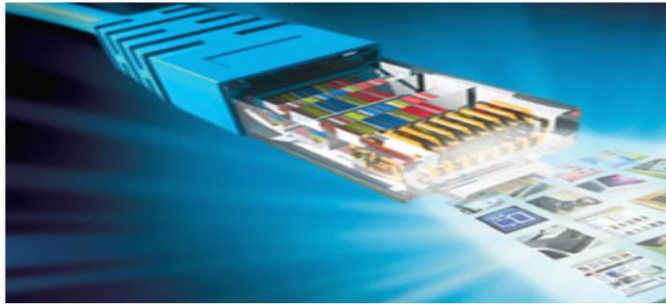


## **Agenda 1** Legal Measures

# Agenda 2 Technical and Procedural Measures



Indonesian National Standard SNI/ISO IEC 27001-2009



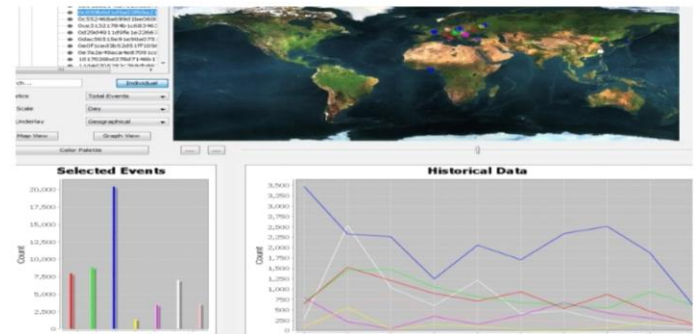
Filter Internet : Trust Positive



Forensic Laboratory



Information Security Index



Monitoring by ID-SIRTII/Gov-SCIRT

```

; Attributes: bp-based frame
sub_10003998 proc near
    arg_0= dword ptr 8
    arg_4= dword ptr 0Ch
    arg_8= dword ptr 10h
    arg_C= dword ptr 14h
    arg_10= dword ptr 18h

    push    ebp
    mov     ebp, esp
    push    [ebp+arg_4]
    call    sub_10003964 ; check if event=RegisterPlugin
    test    eax, eax
    pop     ecx
    jz      short loc_100039CC ; jump if it was not RegisterPlugin

; END
ush 0 : int
ush 0 : lpData
ush offset sRegValue : "PluginPath"
ush offset phkResult : "Software\\MyWebSearch\\bar"
ush 8000002h : dwDisposition
all WriteRegistry
dd esp, 14h
all dllRegisterServer
ov al, 1
on ahn
    
```

Malware Analyst

# Organizational Structures

## Agenda 3

### **Regulator**

- **Directorate Information Security- Kominfo**
- **IDSIRTI (Indonesia Security Incident Response Team on Internet Infrastructure) – Kominfo**
- **National Crypto Agency**

### **Defense/Military**

- **Ministry of Defense**
- **TNI (Indonesian National Armed Forces)**

## **National Cybersecurity Institution**

### **Law Enforcement**

- **Police**
- **Ministry of Legal Affairs**
- **Attorney**
- **Justice**

### **Intelligence**

- **BIN (National Intelligence Agency)**
- **BAIS TNI (Indonesian Military's Strategic Intelligence Agency)**

# **Agenda 4** Capacity Building



# Agenda 5 International Cooperation



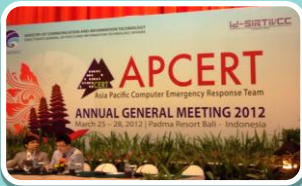
Member of ASEAN Network Security Action Council Working Group



Member of International Telecommunication Union (ITU)



Bilateral Cooperation in Cyber Security



Steering Committee Asia Pacific Computer Emergency Response Team (APCERT).



Member of FIRST (Forum of Incident Response and Security Teams)

# **AGENDA**

**Introduction**

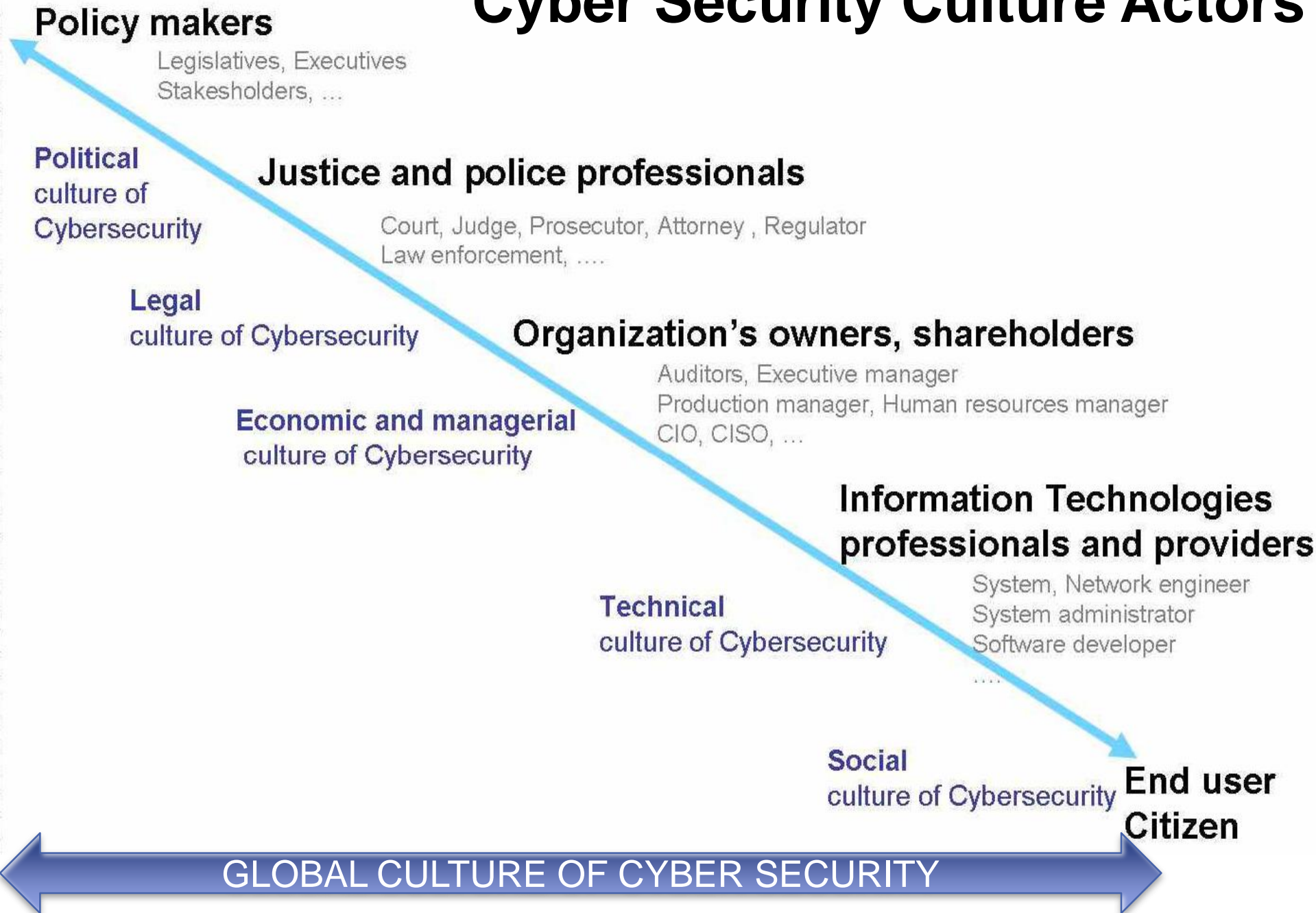
**Cybersecurity Strategies  
to address Cybercrime**

**Cultural Dimensions in  
Cyber Space**

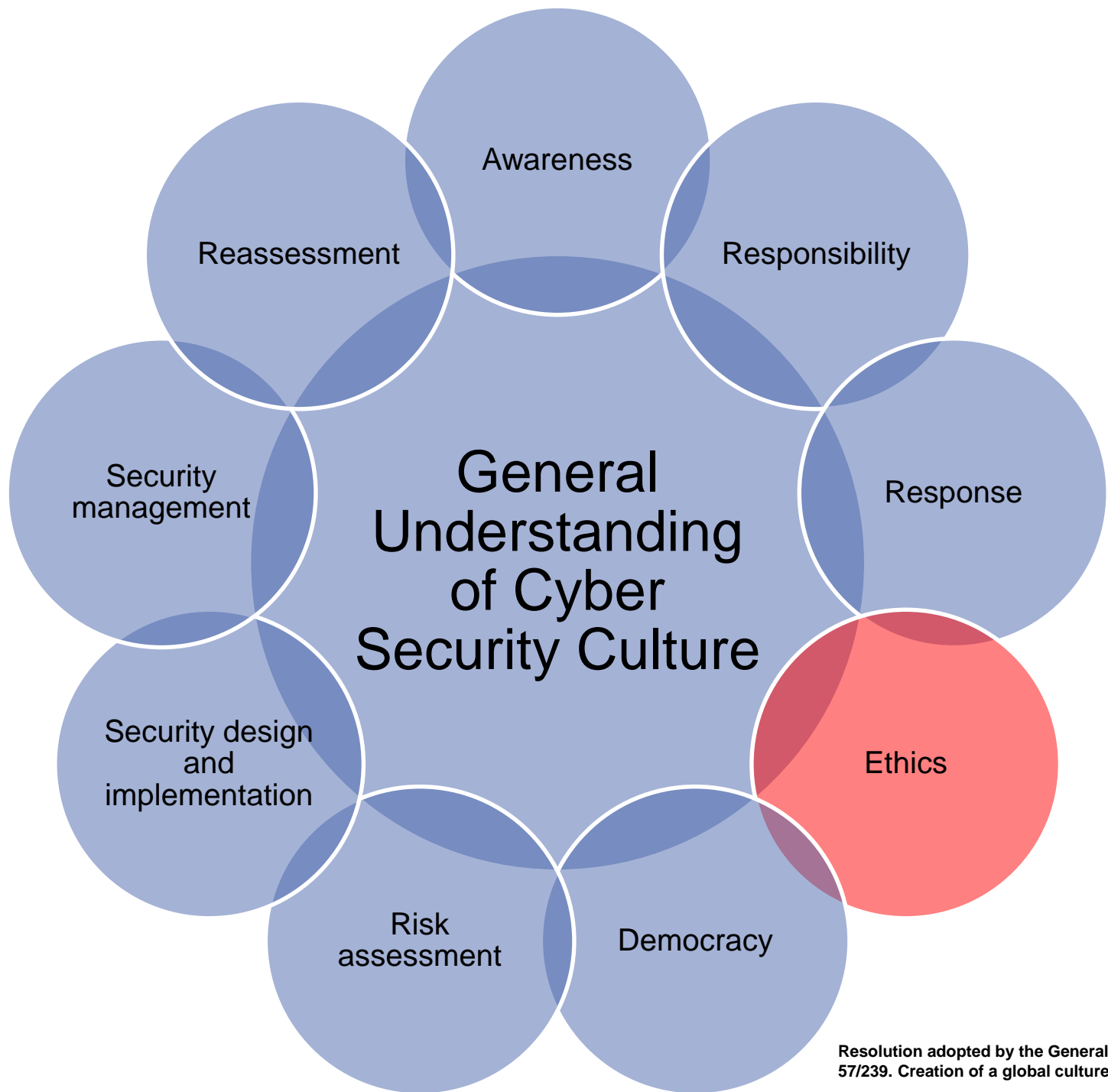
**Discussion**



# Cyber Security Culture Actors



**UNGA 57/239,  
Creation of a global culture of cybersecurity**



Resolution adopted by the General Assembly  
57/239. Creation of a global culture of cybersecurity

# Constraints on Cyberspace

Law



Code



Norms



Market



CYBERSPACE



# **High Level Meeting in Pre-IGF 2013**

## **“GLOBAL MULTI-STAKEHOLDER CYBER ETHICS PRINCIPLES TO ACHIEVE A SAFE, PEACE, AND HARMONY IN CYBERSPACE**

- a. Formulate minimum list of the Bali Declaration of Cyber Ethics Principles that may be accepted by people around the world within all cultures and religions, not as a replacement for their beliefs, but as an acceptance of global ethics in cyberspace.
- b. Develop global principles relating to the Bali Declaration of Cyber Ethics Principles which respect to local culture and values, content provision, privacy universal access, digital properties, security, and other relevant issues.
- c. Conduct declaration of global multi-stakeholder Bali Declaration of Cyber Ethics Principles to achieve a safe, peace, and harmony in cyberspace

# DISCUSSION





# Issues and Challenges in the Borderless World

## Issues

**Cross-Border Investigation & Evidential Matters**



## Cyber Content Related Threats

**Threat to National Security**



**Defamation**



**Online Porn**



**Offensive**



## Technology Related Threats

**Hacking**



**Fraud & Spam**



**Malicious Code**

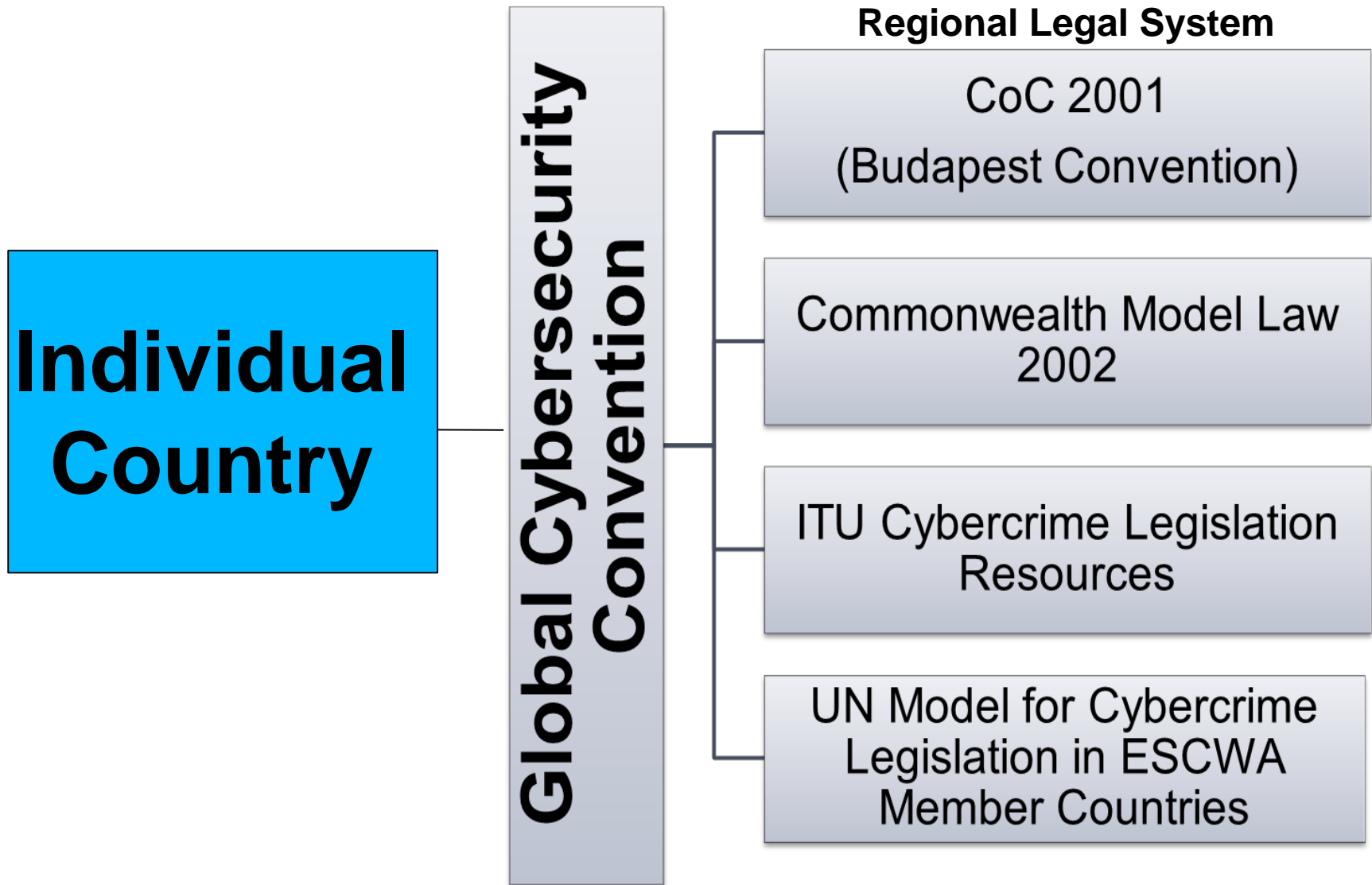


**Denial of Service Attack**

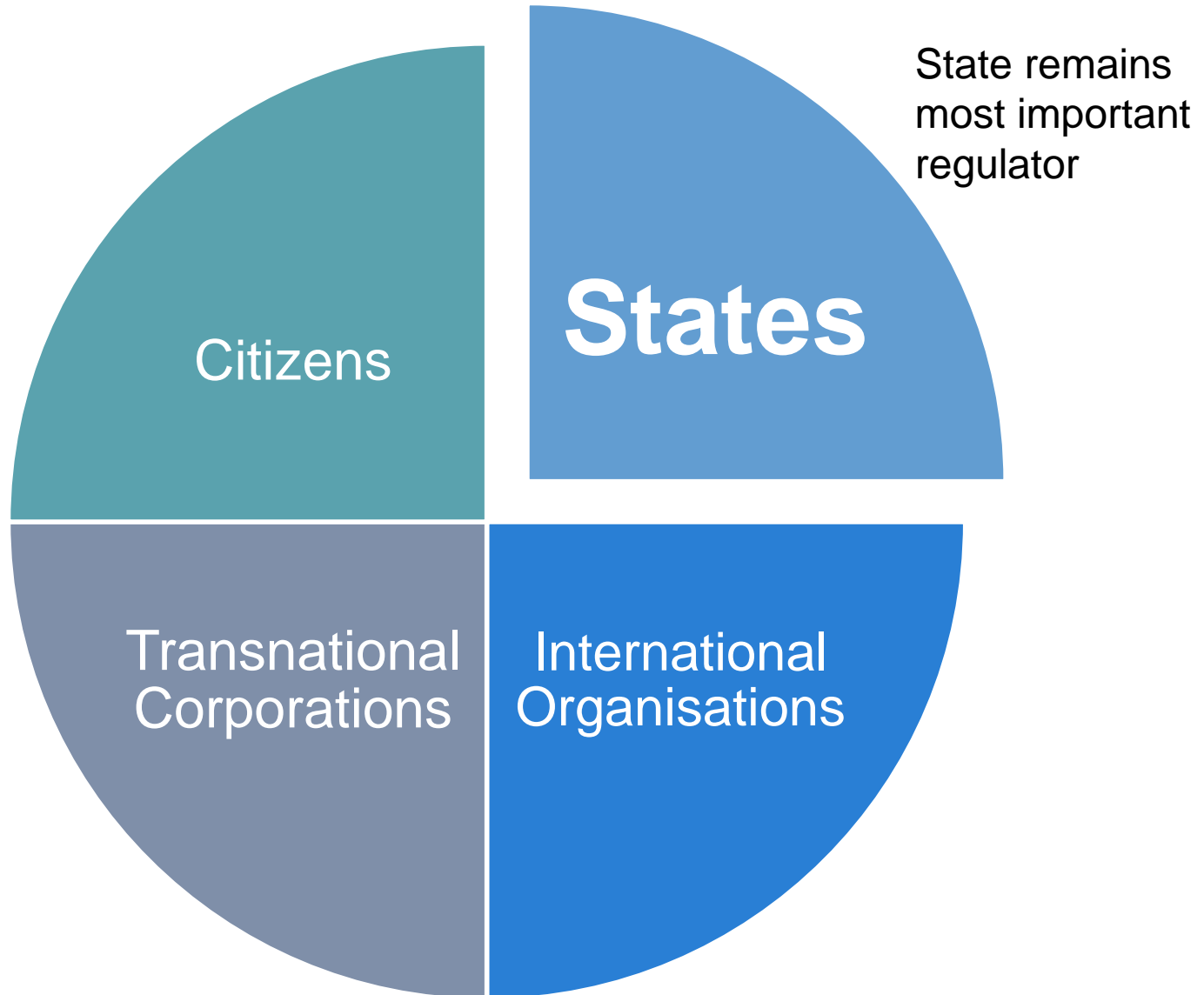




# Global Legal Framework **Proposed**



# Who Governs & is Governed in Cyberspace?



# ITU Council 2012

**Council 2012**

Geneva, 4-13 July 2012



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Agenda item: PL 1.1 iv

Document C12/61-E  
19 June 2012  
Original: English

## **Note by the Secretary-General** STRENGTHENING CYBERSECURITY MEASURES

I have the honour to transmit to the Member States of the Council a contribution received from the **Republic of Indonesia**.

Dr Hamadoun I. TOURE  
Secretary-General

# WCIT-12 Dubai, December 2012

## World Conference on International Telecommunications (WCIT-12)

Dubai, 3-14 December 2012



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PLENARY MEETING

Document 8-E  
3 August 2012  
Original: English

**Indonesia (Republic of)**

PROPOSALS FOR THE WORK OF THE CONFERENCE

PROPOSAL FOR REVISING ARTICLE 1 AND ARTICLE 3 IN "BUILDING CONFIDENCE AND  
SECURITY IN THE USE OF INFORMATION AND COMMUNICATION TECHNOLOGIES"

# ITU Council 2013

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**Council 2013**

Geneva, 11-21 June 2013



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Agenda item: PL 1.1 iv)

Document C13/89-E

12 June 2013

English only

**Note by the Secretary-General**

CONTRIBUTION FROM INDONESIA ON STRENGTHENING CYBERSECURITY MEASURES  
FOR MEMBER STATES

# Thank You

*“Toward a better Justice in Cyberspace”*

Should there any questions, please contact us at below address

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