Expert Meeting on

CYBERLAWS AND REGULATIONS FOR ENHANCING E-COMMERCE: INCLUDING CASE STUDIES AND LESSONS LEARNED

25-27 March 2015

Cyber Security Challenges & Capacity Building

By

Marco Obiso

International Telecommunication Union

The views reflected are those of the author and do not necessarily reflect the views of UNCTAD



Cybersecurity Challenges & Capacity Building March 2015





Cybersecurity Challenges

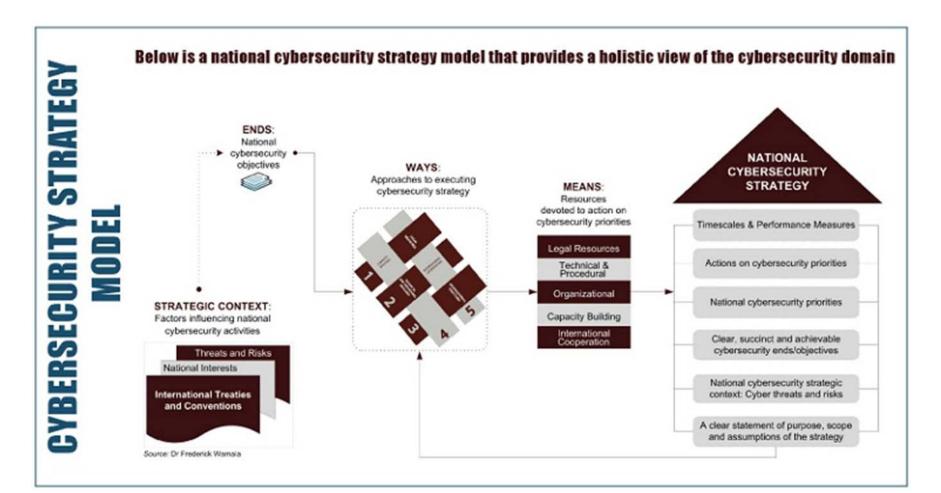


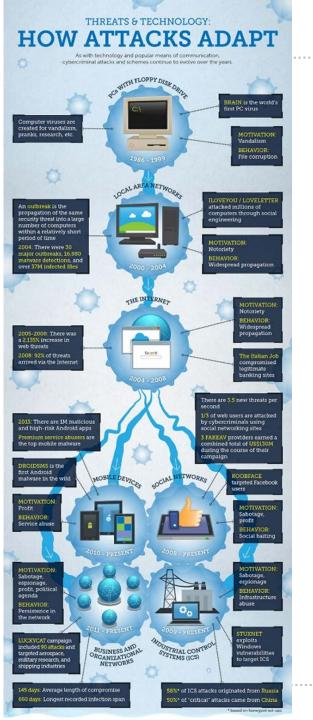
Challenge 1: International Cooperation



Challenge 2: Critical Information Infrastructure Protection (CIIP)

Committed to Connecting the World







Challenge 3: Attacks are evolving and Malware is becoming increasingly complex

Source: Trend Micro



Challenge 4: M2M technology, IoT and Cloud computing









Challenge 5: Secure digital identification





Challenge 6: Development of common standards





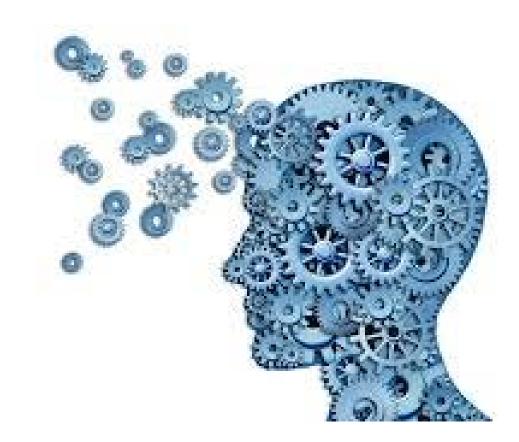
Challenge 7: Child Online Protection (COP)







Challenge 8: Increasing awareness







Recommendations



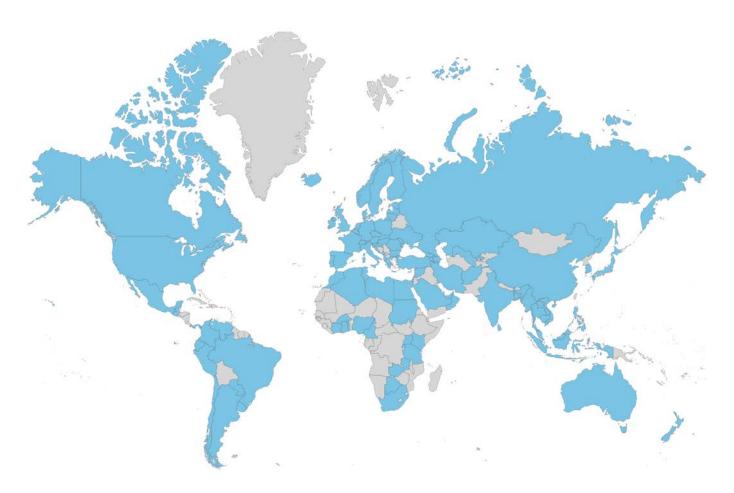
Strengthen Cooperation

Information and best practice sharing

Public-Private Partnerships Develop National Capabilities

Measuring Cybersecurity Elaboration of Standards Protection of vulnerable groups





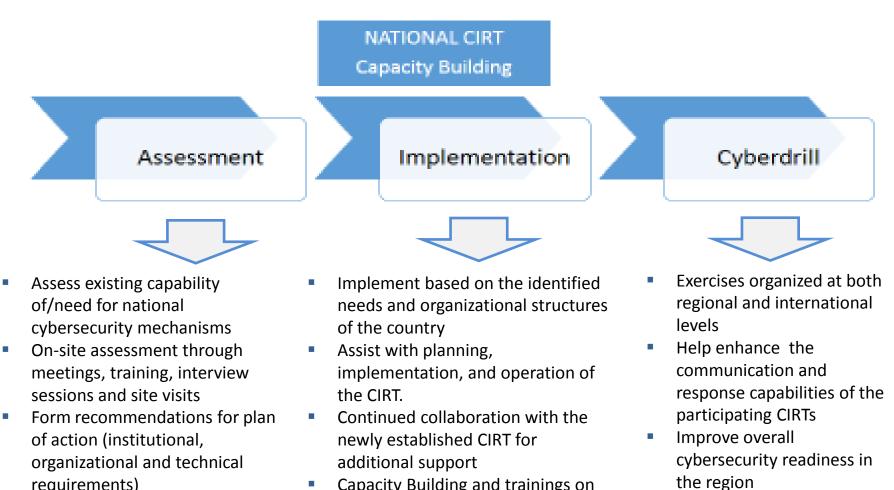
101 National CIRTs Worldwide



ITU'S National CIRT Programme NATIONAL CIRT | CAPACITY BUILDING ASSESSMENT | MPLEMENTATION CYBERDRILL

- Assessments conducted for 61 countries
 25 of them in Africa. In progress in Ethiopia and Republic of Congo
- Implementation completed for 9 countries
 7 of them in Africa
- Implementation in progress for 6 countries Burundi and Gambia among others
- 9 cyber drills conducted with participation of over 90 countries Last Cyberdrill was for Africa in September 2014, in Livingstone, Zambia

ITU's National CIRT Programme



Capacity Building and trainings on the operational and technical details

requirements)

Provide opportunities for public-private cooperation

15

National CIRTs - Critical Success Factors

Committed to Connecting the World

- Government Commitment
- Identify the right constituencies
- Engage the key players
- Be visible and collaborate within the country, regionally and internationally
- Have a strong technical team with right expertise





Objective

The Global Cybersecurity Index (GCI) aims to measure the level of commitment of each nation in cybersecurity in five main areas:

- Legal Measures
- Technical Measures
- Organizational Measures
- Capacity Building
- National and International Cooperation

Goals

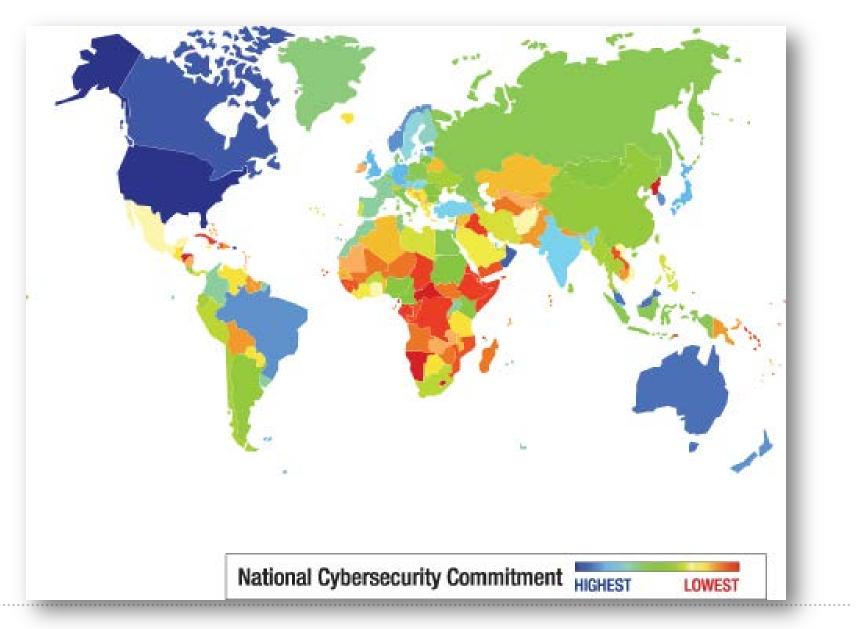
- Promote cybersecurity strategies at a national level
- Drive implementation efforts across industries and sectors
- Integrate security into the core of technological progress
- Foster a global culture of cybersecurity

104 countries have responded

Final Global and Regional Results 2014 are on ITU Website http://www.itu.int/en/ITU-D/Cybersecurity/Pages/GCI.aspx

Next iteration in progress







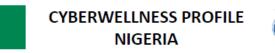
Cyberwellness Country Profiles

Factual information on cybersecurity achievements on each country **based on the GCA pillars**

Over 190 profiles to date

Live documents – Invite countries to assist us in maintaining updated information <u>cybersecurity@itu.int</u>







Internet users, percentage of population: 38.00% (data source: ITU Statistics, 2013)

1. CYBERSECURITY

1.1 LEGAL MEASURES

 1.1.1
 CRIMINAL LEGISLATION

 Specific legislation pertaining to cybercrime is mandated through the following legal instruments:

 -Money laundering (prohibition) Act 2011

 -Advance Free Fraud & other related Offences Act 2006

 - Evidence Act 2001

 - Cybercrime Bill 2013 (in view)

1.1.2 REGULATION AND COMPLIANCE There is no available information concerning any officially recognised regulation pertaining to cybersecurity.

1.2 TECHNICAL MEASURES

1.2.1 CIRT

ITU-IMPACT completed a CIRT readiness assessment for Nigeria at Burkina Faso in May 2010. Nigeria has an officially recognized CIRT (CERRT.ng) by the Office of National Security Adviser. Nigeria is also in process of building another officially recognized national CIRT (NGCERT).

1.2.2 STANDARDS

The technical framework for cyber and information security (<u>NCC</u>) is the officially recognized national (and sector specific) cybersecurity framework for implementing internationally recognized cybersecurity standards. The Legal Framework for CIS Operational Procedure Manual for CIS is currently in view.

1.2.3 CERTIFICATION

The Computer Forensics Institute of Nigeria (CFIN) and the Association of Certified Cybersecurity Policy are the officially approved national (and sector specific) cybersecurity frameworks for the certification and accreditation of national agencies and public sector professionals.



Building a global partnership



Capacity building initiatives, joint consultations and more.



Best practices in cybercrime legislations, joint technical assistance to member states, information sharing



Tap on expertise of globally recognized industry players and accelerate info sharing with ITU member states



Collaboration with ABI Research – The Global Cybersecurity Index (GCI)



Collaboration with FIRST – To share best practices on computer incident response, engage in joint events, facilitate affiliation of national CIRTS of member states



Collaboration with Member States – Regional Cybersecurity Centres



Thank You

http://www.itu.int/cybersecurity

cybersecurity@itu.int