Cybersecurity Actions @ITU

Rosheen Awotar-Mauree [Mrs]
Programme Officer, ITU Office for Europe
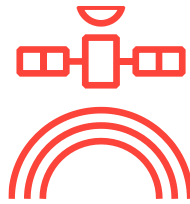
ITU is the United Nations **specialized agency for information and communication technologies** (ICTs)

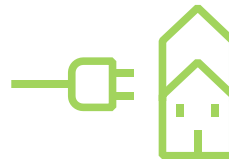**'Committed to Connecting the World'**

3
Sectors

ITU Radiocommunication
Coordinating radio-frequency spectrum and **assigning** orbital slots for satellites

ITU Standardization
Establishing global standards

ITU Development
Bridging the digital divide

193 Member States | +700 Private Sector Organisations | +150 Academia Members

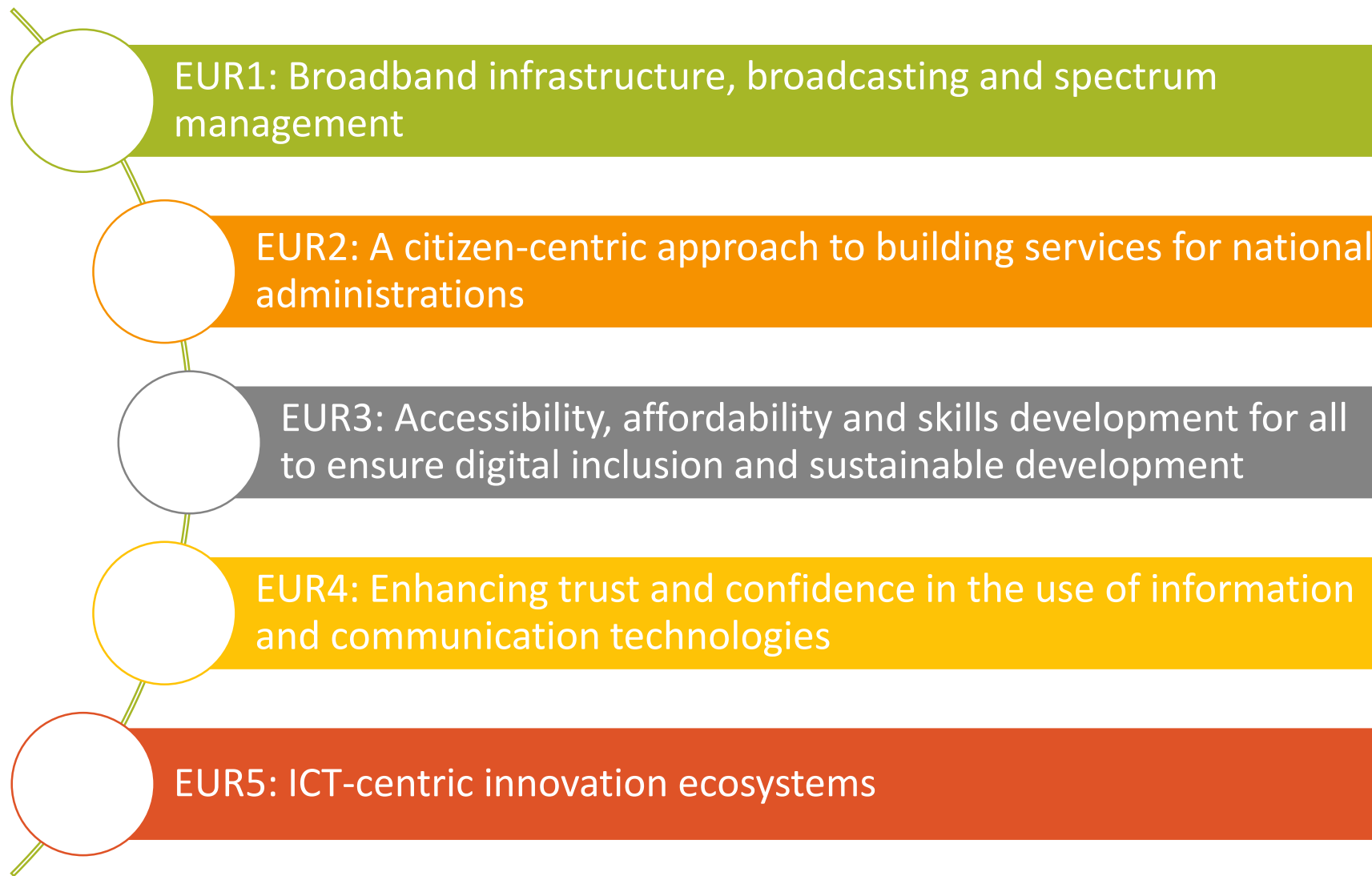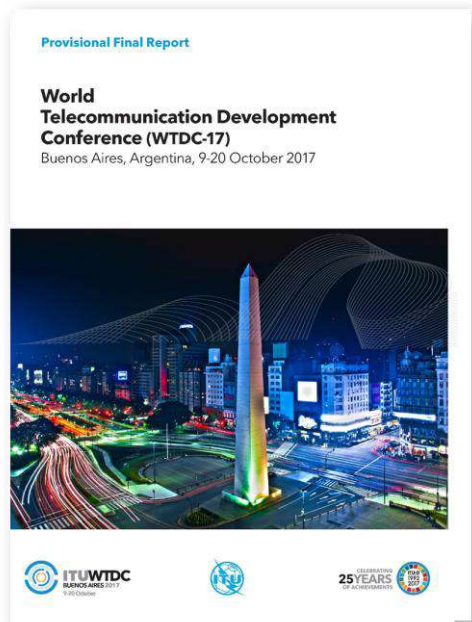# ITU Offices

ITU Office for Europe   EURregion@itu.int

45 Countries : Albania, Andorra, Austria, Belgium, Bosnia and Herzegovina, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Georgia, Germany, Greece, Hungary, Iceland, Ireland, Israel, Italy, Latvia, Liechtenstein, Lithuania, Luxembourg, Malta, The Former Yugoslav Republic of Macedonia, Monaco, Montenegro, Netherlands, Norway, Poland, Portugal, Romania, San Marino, Serbia, Slovak Republic, Slovenia, Spain, Sweden, Switzerland, Turkey, Vatican, Ukraine,United Kingdom

ITUWTDC
BUENOS AIRES 2017
9-20 October

#ICT4SDG

CELEBRATING
25YEARS
OF ACHIEVEMENTS
ITU-D
1992
2017

REGIONAL INITIATIVES FOR EUROPE 2018-2021

EUR1: Broadband infrastructure, broadcasting and spectrum management

EUR2: A citizen-centric approach to building services for national administrations

EUR3: Accessibility, affordability and skills development for all to ensure digital inclusion and sustainable development

EUR4: Enhancing trust and confidence in the use of information and communication technologies

EUR5: ICT-centric innovation ecosystems

Provisional Final Report

World Telecommunication Development Conference (WTDC-17)
Buenos Aires, Argentina, 9-20 October 2017

Cybersecurity - Global Policy

Sustainable Development Goals – SDGs 1, 4, 5, 7, 8, 9, 11, 16, 17

SDG 9: Build resilient infrastructure, promote inclusive and sustainable industrialization and foster innovation.

Target 9.1: Develop quality, reliable, sustainable and resilient infrastructure, including regional and trans-border infrastructure, to support economic development and human well-being, with a focus on affordable and equitable access for all.

WSIS Action Line C5 : Building confidence and security in the use of ICTs

Global Cybersecurity Agenda - GCA

A multi-stakeholder platform to address cybersecurity challenges from 5 perspectives : Legal, Technical, Organisational, Capacity Building, Cooperation
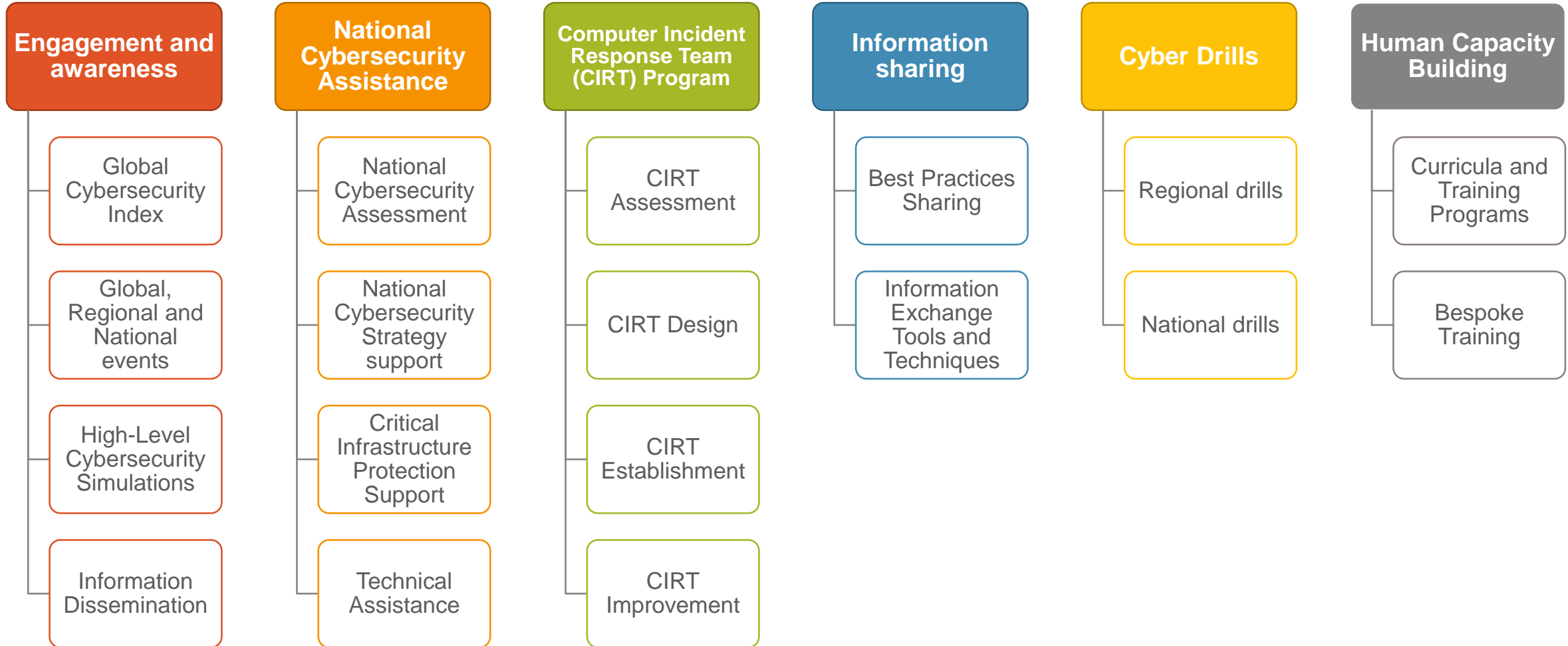

3 Pillars of Sustainable Development
❖**Economic development**
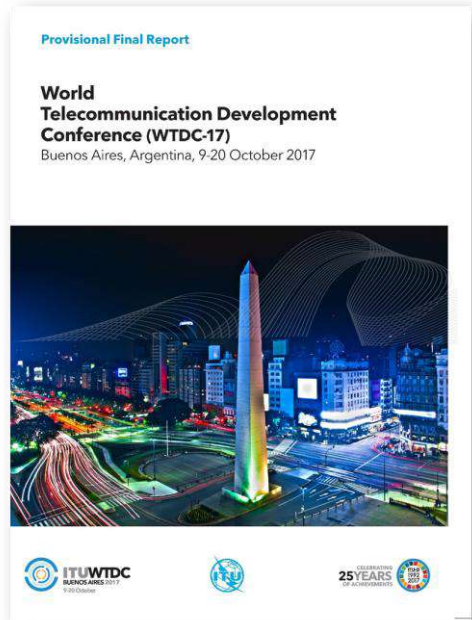❖**Social inclusion**
❖**Environmental protection**

BDT Cybersecurity Program

6 Service areas – 18 Services

Engagement and awareness	National Cybersecurity Assistance	Computer Incident Response Team (CIRT) Program	Information sharing	Cyber Drills	Human Capacity Building
Global Cybersecurity Index	National Cybersecurity Assessment	CIRT Assessment	Best Practices Sharing	Regional drills	Curricula and Training Programs
Global, Regional and National events	National Cybersecurity Strategy support	CIRT Design	Information Exchange Tools and Techniques	National drills	Bespoke Training
High-Level Cybersecurity Simulations	Critical Infrastructure Protection Support	CIRT Establishment			
Information Dissemination	Technical Assistance	CIRT Improvement			

REGIONAL INITIATIVES on CYBERSECURITY FOR EUROPE 2018-2021

Provisional Final Report

**World
Telecommunication Development
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ITUWTDC
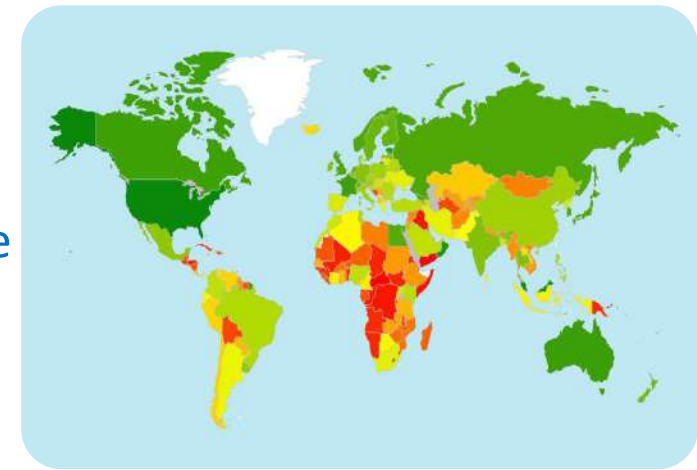BUENOS AIRES 2017

25YEARS
CELEBRATING
OF ACHIEVEMENTS

EUR4: Enhancing trust and confidence in the use of information and communication technologies

Global Cybersecurity Index [GCI]

GCI is a composite index combining 25 indicators into one benchmark measure to monitor and compare the level of ITU Member States **cybersecurity commitment** with regard to the five pillars identified by the High-Level Experts and endorsed by the GCA.

"GCI is a capacity building tool, to support countries to improve their national cybersecurity posture"

- GCIv1 : 2013-2014 period with **105** country responses
- GCIv2 : 2016-2017 period with **134** country responses
- **GCIv3 : 2018 planned completion**

LEGAL
Cybercriminal Legislation, Substantive law, Procedural cybercriminal law, Cybersecurity Regulation.

TECHNICAL
National CIRT, Government CIRT, Sectoral CIRT, Standards for organisations, Standardisation body.

ORGANIZATIONAL
Strategy, Responsible agency, Cybersecurity metrics.

CAPACITY BUILDING
Public awareness, Professional training, National education programmes, R&D programmes, Incentive mechanisms, Home-grown industry.

COOPERATION
Intra-state cooperation, Multilateral agreements, International fora, Public-Private partnerships, Inter-agency partnerships.

Global Cybersecurity Index [GCI] Europe in Figures

Legal in figures

43	Countries with Cybercriminal Legislation
43	Countries with Cybersecurity Regulation
22	Countries with Cybersecurity Training

Technical in figures

35	Countries with National CIRT
35	Countries with Government CIRT
30	Countries with Sectoral CIRT

Organizational in figures

35	Countries with Strategy
39	Countries with Responsible Agency
20	Countries with Cybersecurity Matrics

Capacity Building in figures

34	Countries with Standardization Bodies
18	Countries with Good practices
27	Countries with R & D programmes
32	Countries with Public awareness campaigns
33	Countries with National education programmes and academic curricula
24	Countries with Incentive mechanisms
27	Countries with Homegrown cybersecurity Industry

Cooperation in figures

|	
27	Countries with Intrastate Cooperation
28	Countries with Multilateral agreements
41	Countries with International Fora participation
25	Countries with Public-Private Partnerships
24	Countries with Inter-Agency partners

Source: GCI 2017 with 43 countries in Europe region

National Cybersecurity Strategy (NCS)

This Guide has primarily been structured as a resource to help government stakeholders in preparing, drafting and managing their National Cybersecurity Strategy.

A joint effort by 12 partners

Released in September 2018@ITU Telecom World

Available at https://www.itu.int/dms_pub/itu-d/opb/str/D-STR-CYB_GUIDE.01-2018-PDF-E.pdf
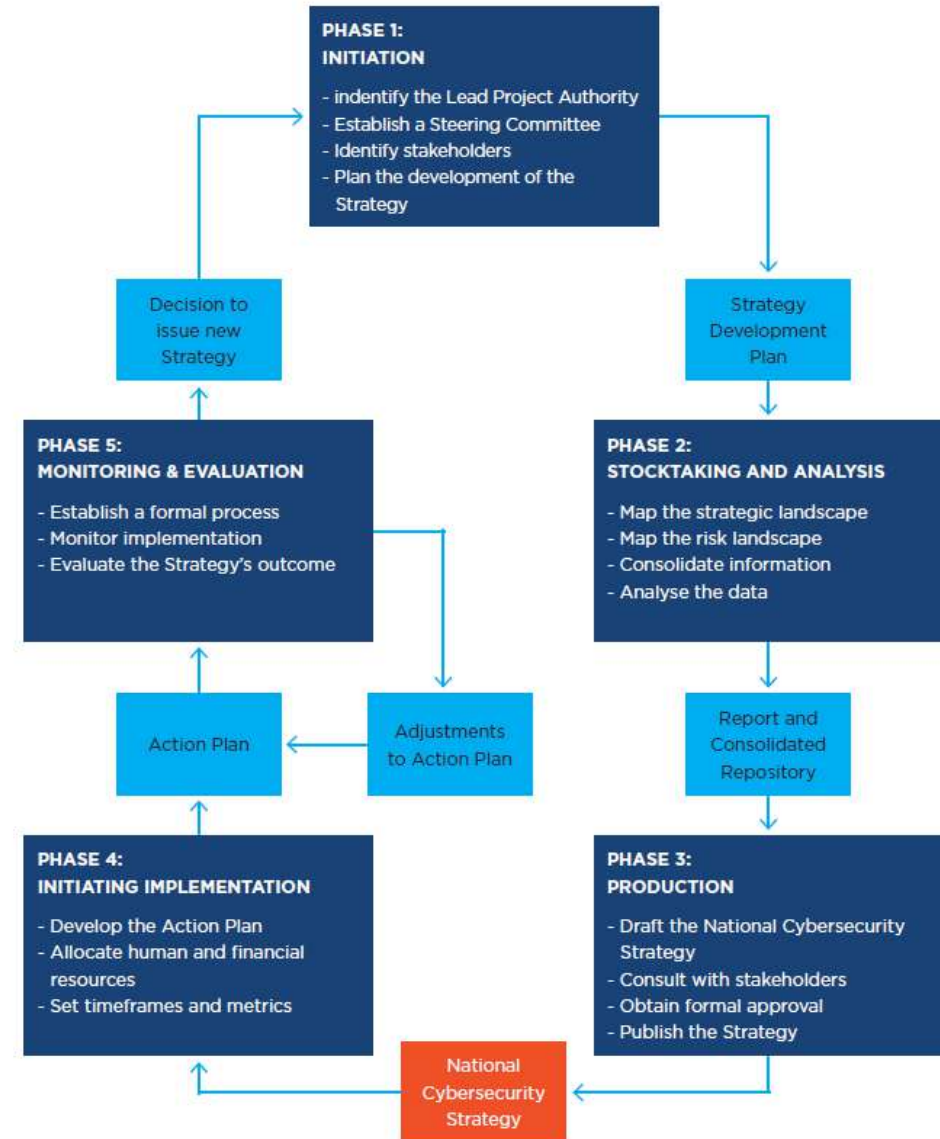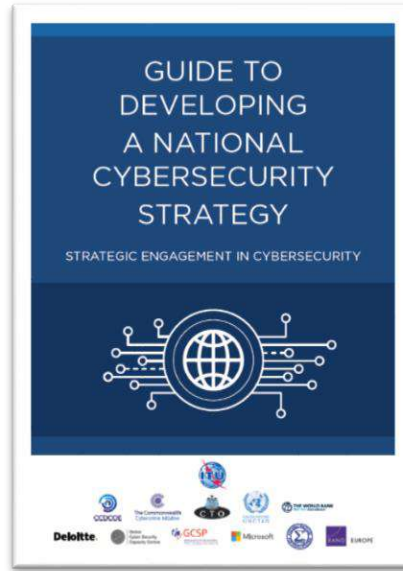
CIRT Framework

71 National CIRT ASSESSMENTs

Africa : Angola, Botswana, Burkina Faso, Burundi, Cameroon, Central African Republic, Chad, Congo (Dem Rep), Congo (Republic), Côte d'Ivoire, Gabonese Republic, Gambia, Ghana, Kenya, Lesotho, Liberia, Madagascar, Malawi, Mali, Mozambique, Niger , Nigeria, Rwanda, Senegal, Sierra Leone, ESwatini, Tanzania, Togolese Republic, Uganda , Zambia, Zimbabwe

Americas: Anguilla, Antigua, Barbados, Bolivia, Dominica , Dominican Republic , Ecuador, Grenada, Honduras, Jamaica , St Kitts & Nevis, St Lucia, St Vincent&TheGrenadines , Suriname, Trinidad and Tobago

Arab region: Comoros, Djibouti, Jordan, Lebanon, Mauritania, Palestine, Sudan

Asia & Pacific: Afghanistan, Bangladesh , Bhutan, Cambodia, Fiji, Laos, Maldives, Myanmar, Nepal , Samoa, Vanuatu, Vietnam

Europe & CIS: Armenia, Bosnia and Herzegovina, Cyprus, Macedonia, Monaco, Montenegro, Serbia

13 CIRTs Implemented

1. Barbados
2. Burkina Faso
3. Cote d'Ivoire
4. Cyprus (Governmental CIRT)
5. Cyprus (National CIRT)
6. Ghana
7. Jamaica
8. Kenya
9. Montenegro
10. Tanzania
11. Trinidad and Tobago
12. Uganda
13. Zambia

In the Pipeline

CIRT Assessments
1. Albania
2. Kyrgyztan
3. Tonga

CIRT Implementation
1. Mozambique
2. Burundi
3. Honduras
4. State of Palestine
5. Mauritania
6. Guyana

Regional CyberDrills

- ❑ Enhance awareness and the capability of countries to participate and to contribute to the development and deployment of a strategy to defeat a cyber threat

- ❑ Strengthen International Cooperation between Member States to ensure continued collective efforts against cyber threats

Day 1 & Day 2 : Focused capacity building sessions for specialists [CIRT Management, Child Online Protection]

Day 3 : **O**pen conference day with presentations and panel discussions on current trends in cybersecurity threats.

Day 4 & Day 5 : Structured around 5-6 scenarios of incidents based on common types of attacks

Child Online Protection [COP] Initiative

The COP Initiative aims at bringing together partners from all sectors of the global community to ensure a safe and secure online experience for children everywhere.
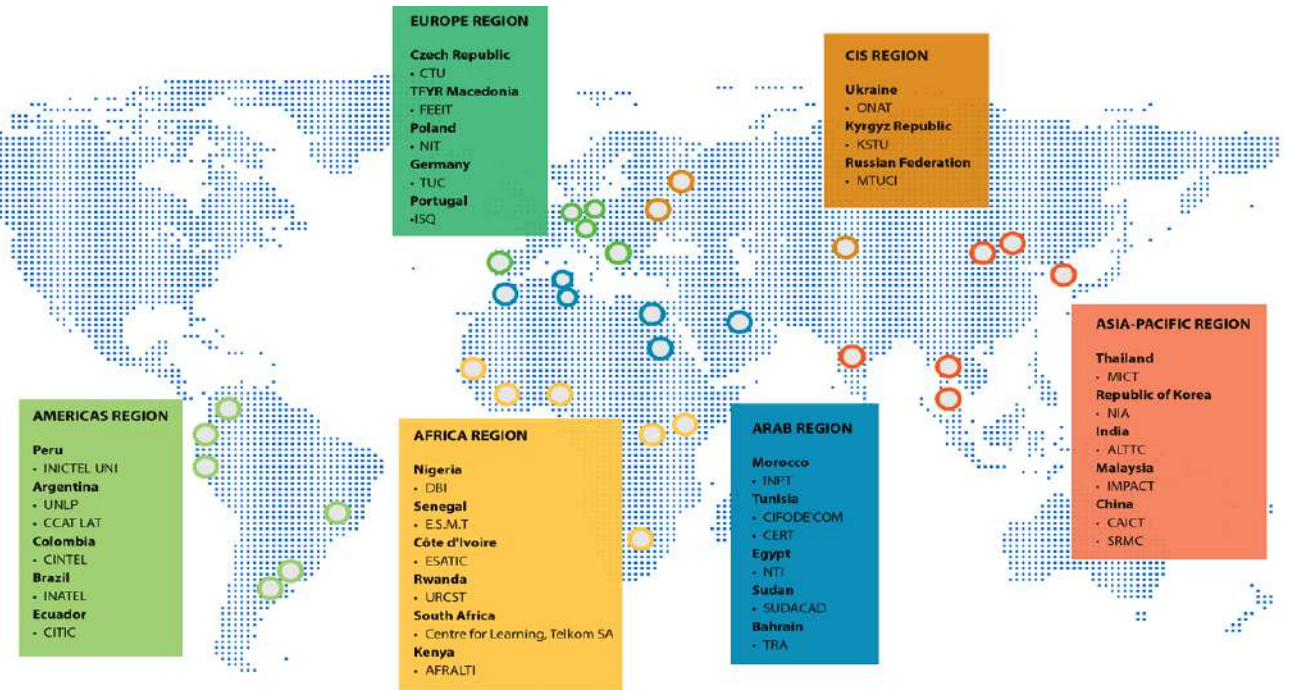
Key Objectives:

- Identify risks and vulnerabilities to children in cyberspace

- Create awareness

- Develop practical tools to help minimize risk

- Share knowledge and experience

BDT Centres of Excellence [CoE] Programme

- Launched in 2001 to strengthen capacity building in the field of telecoms/ICTs
- Operates under the umbrella of the ITU Academy and is a key training delivery mechanism
- CoEs deliver face to face and e-learning training to ICT professionals and executives in the public and private spheres
- CoE global network shares expertise, resources and capacity-building know-how in ICT training/education

EUROPE REGION
Czech Republic
• CTU
TFYR Macedonia
• FEEIT
Poland
• NIT
Germany
• TUC
Portugal
•ISQ

CIS REGION
Ukraine
• ONAT
Kyrgyz Republic
• KSTU
Russian Federation
• MTUCI

ASIA-PACIFIC REGION
Thailand
• MICT
Republic of Korea
• NIA
India
• ALTTC
Malaysia
• IMPACT
China
• CAICT
• SRMC

AMERICAS REGION
Peru
• INICTEL UNI
Argentina
• UNLP
• CCAT LAT
Colombia
• CINTEL
Brazil
• INATEL
Ecuador
• CITIC

AFRICA REGION
Nigeria
• DBI
Senegal
• E.S.M.T
Côte d'Ivoire
• ESATIC
Rwanda
• URCST
South Africa
• Centre for Learning, Telkom SA
Kenya
• AFRALTI

ARAB REGION
Morocco
• INPT
Tunisia
• CIFODE'COM
• CERT
Egypt
• NTI
Sudan
• SUDACAD
Bahrain
• TRA

CoE priority areas for the 2019-2022 cycle

Spectrum management - Smart cities and communities
Bridging the standardization gap - Artificial intelligence
Digital broadcasting - Digital financial services
Conformance and interoperability - Internet governance
Internet of Things - Innovation and entrepreneurship
Cybersecurity - ICTs and the environment - Digital inclusion
Digital transformation - Emergency telecommunication
Digital economy - ICT applications - Big data and statistics
Wireless and fixed broadband

Cybersecurity Cooperation actions @ ITU

ITU STUDY GROUPS – Membership driven

ITU-D Study Group2 Question3

- Securing information and communication networks:

Best practices for developing a culture of cybersecurity

ITU-T Study Group 17 : Security

- Develop recommendations for future standards including in Cybersecurity

ITU-R Study Groups

- Securing radiocommunications

Cybersecurity Cooperation actions @ ITU

PARTNERSHIPS for initiatives

Global Cybersecurity Index – call for new partners

- Australia Strategic Policy Institute, FIRST, Indiana University, INTERPOL, ITU-Arab Regional Cybersecurity Centre, Korea Internet & Security Agency, NTRA Egypt, Potomac Institute of Policy Studies, Red Team Cyber, UNICRI, University of Technology Jamaica, UNODC, World Bank

National Cybersecurity Strategy Reference Guide

- CCI, CTO, ENISA, GCSP, GCSCC University of Oxford, Intellium, Microsoft, NATO CCDCOE, OECD, OAS, Potomac Institute, RAND Europe, UNCTAD and World Bank

Child Online Protection – a whole community

For You to Consider

- ❑ **Participate in workshops in various regions**
- ❑ **Partner /Collaborate on specific cybersecurity initiatives [GCI..NCS.. Cyberdrill host]**
- ❑ **Request In country assistance**
  - ❑ **National CIRT**
  - ❑ **National Cybersecurity Strategy**
  - ❑ **Child Online Protection Assessment**
- ❑ **Join Study Groups [ITU Membership]**
- ❑ **Partner/Take ITU Academy/ CoE courses**
- ❑ **Participate in Global ITU Events**

https://www.itu.int/en/ITU-D/Regional-Presence/Europe/Pages/Events/2018/CERT-ROForum/default.aspx

Register at https://www.cert.ro/certcon8/

JOIN US

Target Technical Staff of CSIRTs [National]

2 Days training by FIRST on Malware Analysis

1 Day Conference

2 Days Cyber attacks simulation team exercises

A joint RCC-ITU-DECAF side meeting for Western Balkan experts

ITUEvents

Europe Region
Cyberdrill

26–30 November 2018
Limassol, Cyprus

Organised within the framework of the
ITU Regional Initiative for Europe on Enhancing
Trust and Confidence in the use of ICTs

NATIONAL CSIRT-CY

Digital Security Authority of Cyprus

Registration and Agenda at
https://www.itu.int/en/ITU-D/Regional-Presence/Europe/Pages/Events/2018/CYBDRILL/ITU-ALERT-Cyber-drill.aspx

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https://www.itu.int/en/ITU-D/Regional-Presence/Europe/Pages/default.aspx