

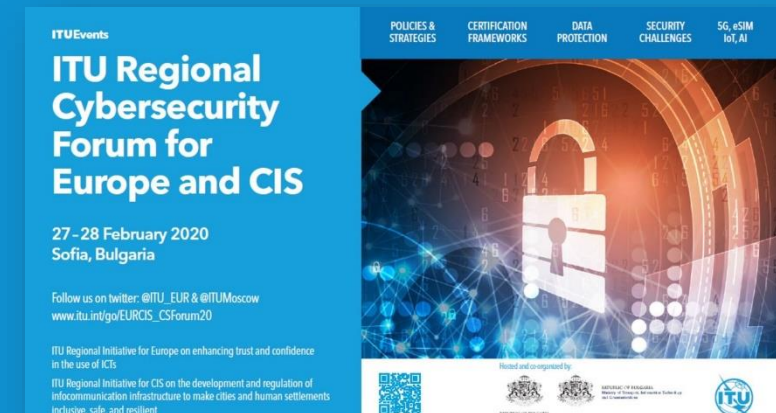
State of Cybersecurity in Europe

ITU Actions at the Regional Level

Jaroslav K. PONDER

*Head of the ITU Office for Europe
International Telecommunication Union*

**Session 10: Cooperation in the region and beyond
ITU Regional Cybersecurity Forum for Europe and
CIS, 27-28 February 2020, Sofia, Bulgaria**



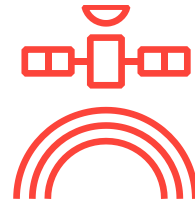
<https://www.itu.int/en/ITU-D/Regional-Presence/Europe/Pages/default.aspx>

ITU is the United Nations **specialized agency for information and communication technologies (ICTs)**



**‘Committed to
Connecting the World’**

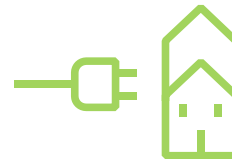
**3
Sectors**



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



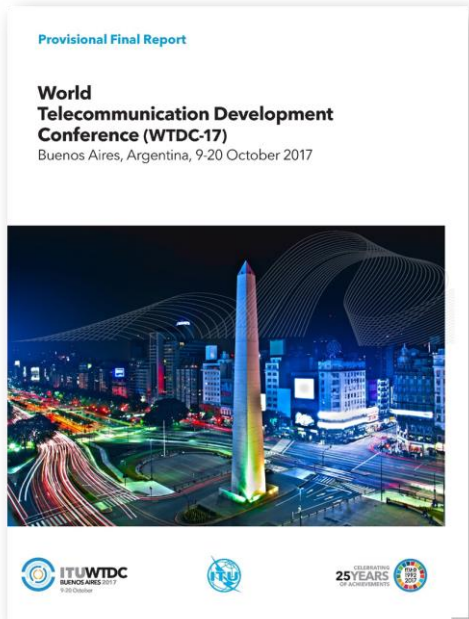
ITU Office for Europe

EURregion@itu.int

46 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, North Macedonia, Moldova, Monaco, Montenegro, Netherlands, Norway, Poland, Portugal, Romania, San Marino, Serbia, Slovak Republic, Slovenia, Spain, Sweden, Switzerland, Turkey, Vatican, Ukraine, United Kingdom

Facilitate engagement of Member countries in ITU activities to connect the world, leaving no-one behind through participation in standards development, involvement in radiocom global resource allocations and ICT development support

REGIONAL INITIATIVES FOR EUROPE 2018-2021



EUR1: Broadband infrastructure, broadcasting and spectrum management

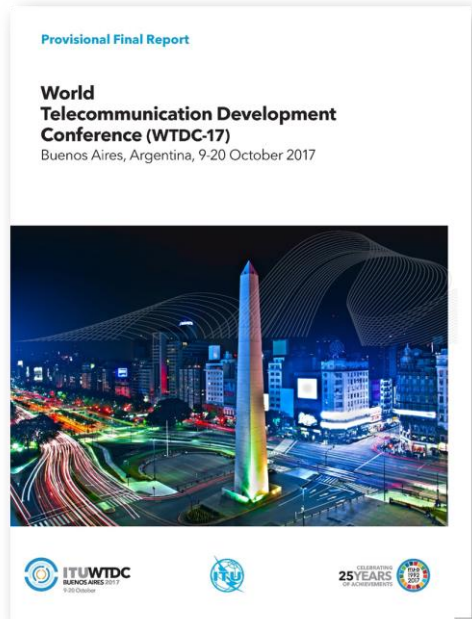
EUR2: A citizen-centric approach to building services for national administrations

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

REGIONAL INITIATIVES on CYBERSECURITY FOR EUROPE 2018-2021



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

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**



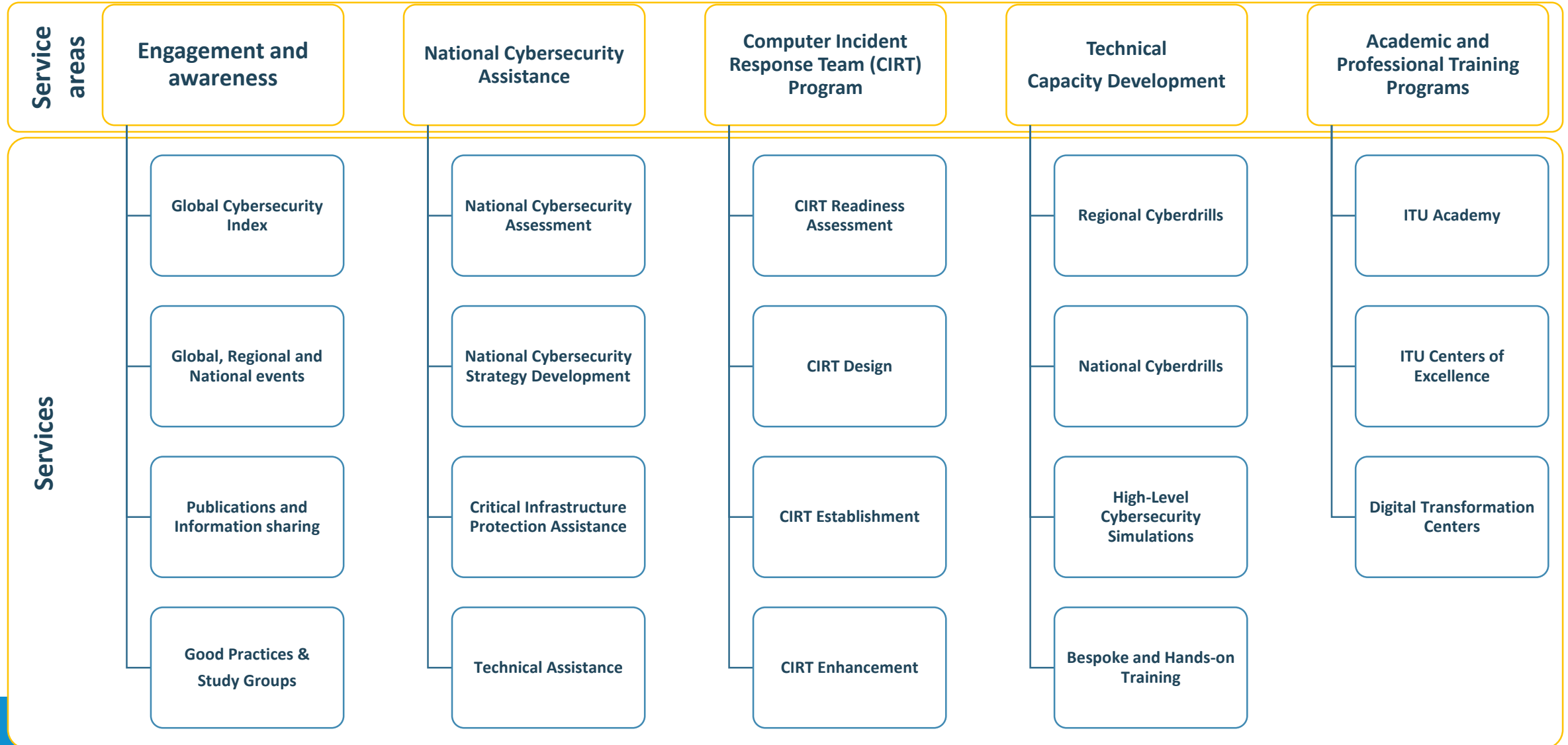
3 Pillars of Sustainable Development

❖ **Economic development**

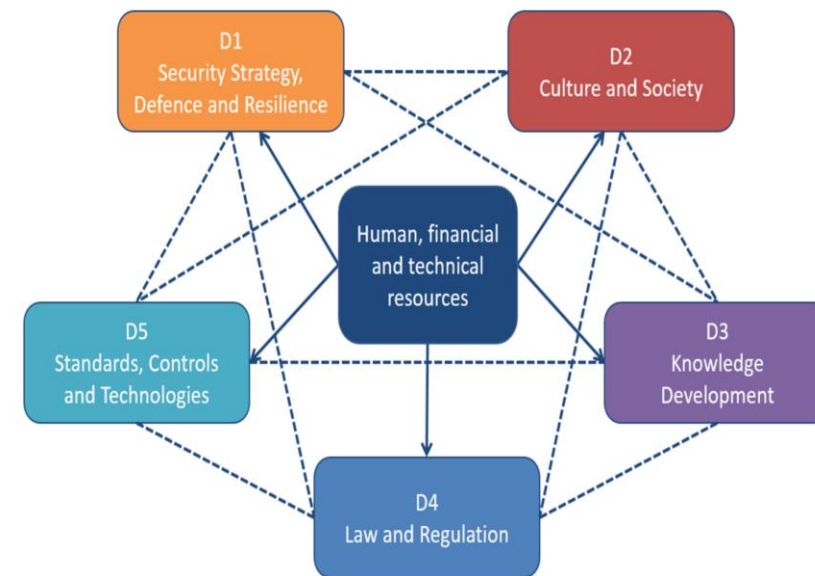
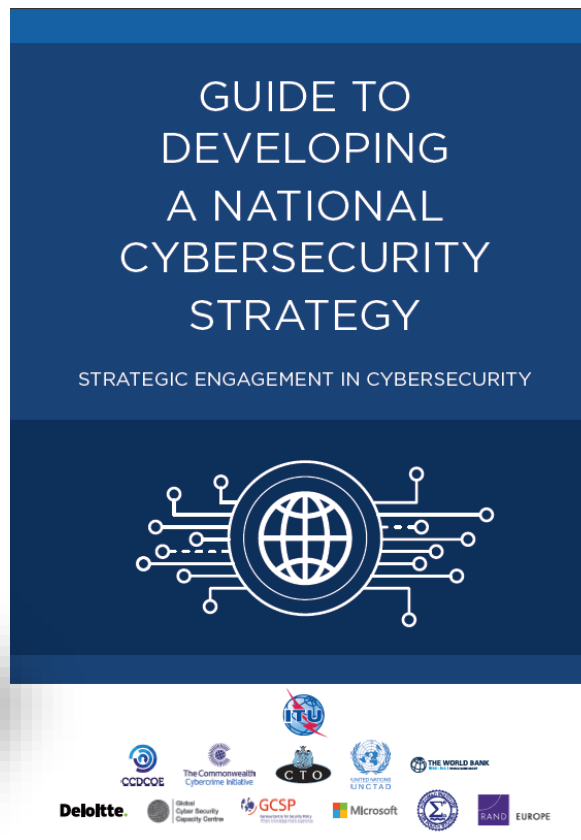
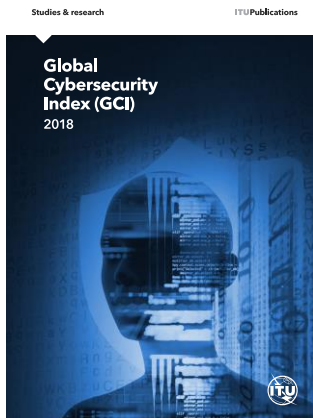
❖ **Social inclusion**

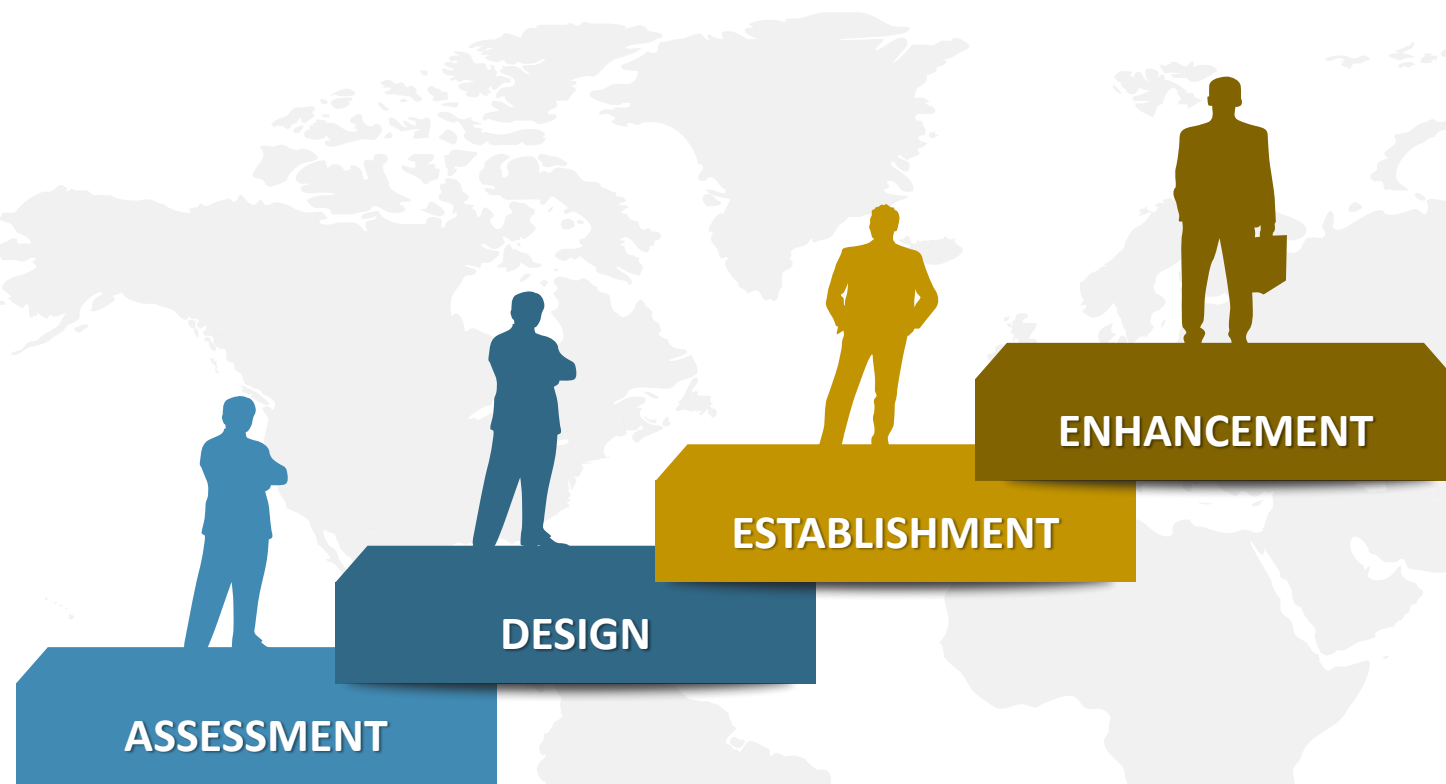
❖ **Environmental protection**

ITU Cybersecurity Program/Cluster



National Cybersecurity Strategy (NCS) & Global Cybersecurity Index (GCI) and National Cybersecurity Assessment -CMM





- Focused on Incident Responses Capabilities with National responsibilities
- Aligned with the FIRST Service Framework

14 CIRT Project Implementations

80 CIRT readiness assessments

8 Ongoing CIRT Projects

Samoa, Malawi , Pacific Islands, Barbados ,
Botswana , Gambia, Burundi, Kenya

28 Exercises
were conducted

115+ Countries
participated in
our Cyberdrills

AMS: Peru

4-18 September 2020

**EUR: Republic of North
Macedonia**
01-05 June 2020

ASP&CIS: Azerbaijan

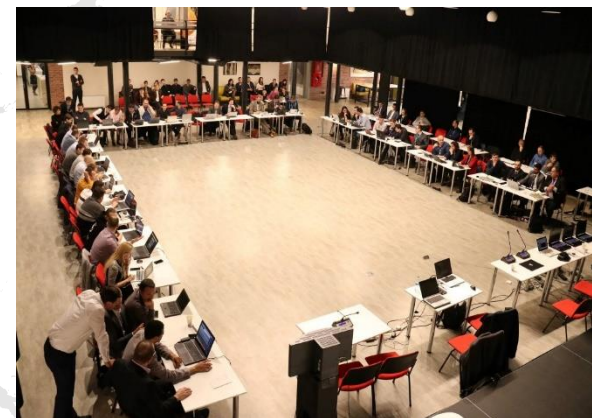
02-06 November 2020

AFR: South Africa

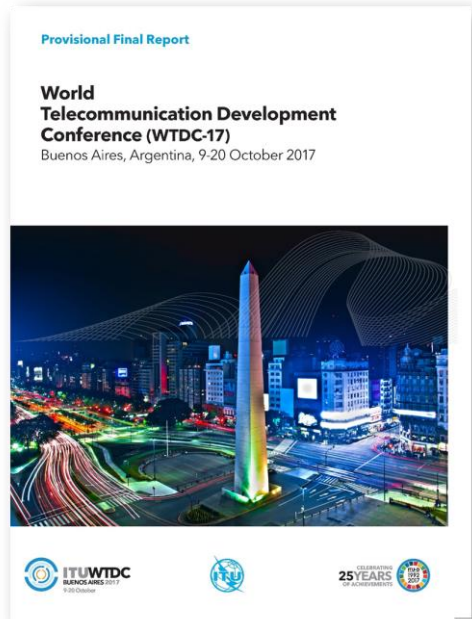
12-16 October 2020

ARB: Kingdom of Saudi Arabia

29 November - 03 December
2020



REGIONAL INITIATIVE on CYBERSECURITY FOR EUROPE 2018-2021

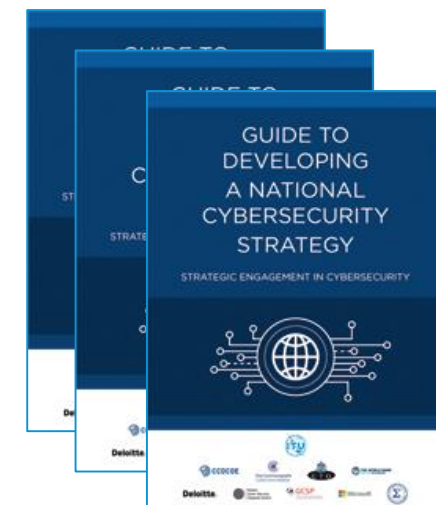
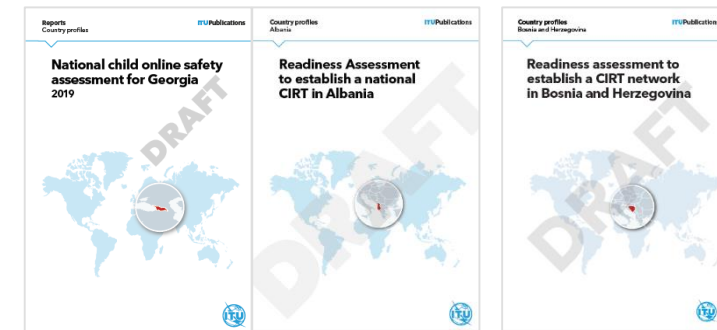


EUR4: Enhancing trust and confidence in the use of information and communication technologies

Actions in Europe under Regional Initiative of Cyber



- ✓ **CIRT Assessments** : Albania, Bosnia and Herzegovina, San Marino
- ✓ **CIRT Implementation** : Fundraising stage: Albania, Bosnia and Herzegovina, San Marino
- ✓ **Country / Multi-country assistance:**
 - ✓ **Child Online Protection** : Georgia, Ukraine
 - ✓ **Piloting of Global COP Guidelines:** Spain
 - ✓ **National Strategies** : Workshop on National Cybersecurity Strategies for Western Balkans, 27-29 June 2019, Skopje, North Macedonia



Actions in Europe under Regional Initiative of Cyber



✓ Cyberdrills:

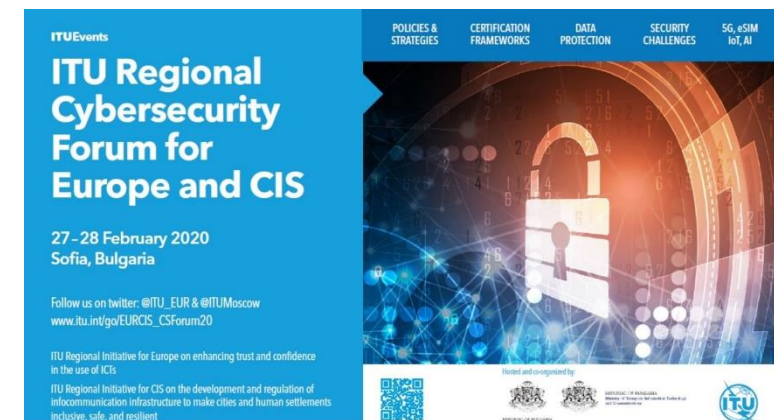
- ✓ Romania, May 2019
- ✓ North Macedonia, June 2020

✓ ITU-DCAF workshop for Western Balkan CIRTs

- ✓ Montenegro, September 2019

✓ Forums:

- ✓ ITU Regional Cybersecurity Forum for Europe and CIS, February 2020, Sofia, Bulgaria



Actions in Europe under Regional Initiative on Cyber



ITU Co-organized and/or Supported Conferences / Seminars / Workshops

- ✓ National Event on Safer Internet Day 2019, 5-6 February 2019, Tirana, Albania
- ✓ Vienna Cybersecurity Week 2019, February 2019, Vienna, Austria
- ✓ International Conference: Keeping Children and Young People Safe Online, 17-18 September 2019, Warsaw
- ✓ National Cyber Security Competition October 2019, Skopje, North Macedonia with the view of transforming it into the regional competition
- ✓ The Hague Summit Accountability in the Digital Age, November 2019 and 2020
- ✓ Moldova Cybersecurity Week, November 2019, Moldova
- ✓ International Cybershield 2019, Ankara, Turkey



Actions in Europe under Regional Initiative on Cyber



2020 Trainings Opportunities by European ITU Centres of Excellence : 25 Trainings, including 7 in field of cybersecurity

-	01.01.20 31.12.20	Online self-paced	"Cybersecurity technique"
	01.01.20 31.12.20	Online self-paced	"Cyber incident response"
	13-20.04.20	Online	"Security and QoS in internet network"
	04-07.05.20	Face-to-face, Vilnius, Lithuania	"Building and effective cybersecurity team",
	01.06.20 31.12.20	Online self-paced	"Information security management system"
	07-09.09.20	Face-to-face Vilnius, Lithuania	"Incident response practice hands-on scenario-based training"
	09-11.09.20	Face-to-face TBC	"Industrial cybersecurity and incident response",



Expert interventions

- OSCE Cybersecurity Conference, May 2019, Sarajevo, Bosnia and Herzegovina [ITU Supported]
- Cybersecurity Conference, June 2019, Ohrid, North Macedonia

GCI overall approach

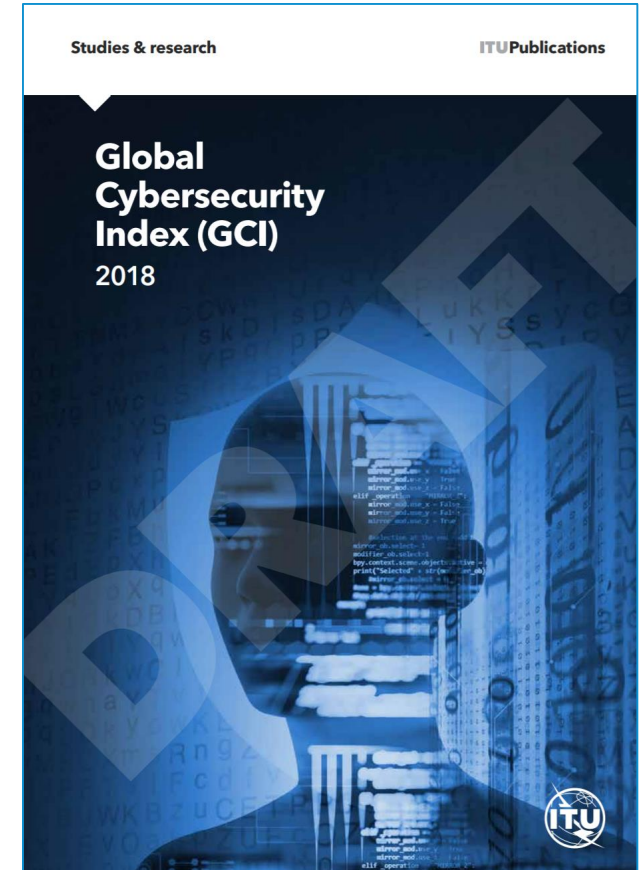
Objective

The Global Cybersecurity Index (GCI) measures each ITU Member States' level of cybersecurity **commitment** in 5 main areas

- Legal - Technical – Organizational - Capacity Building - Cooperation

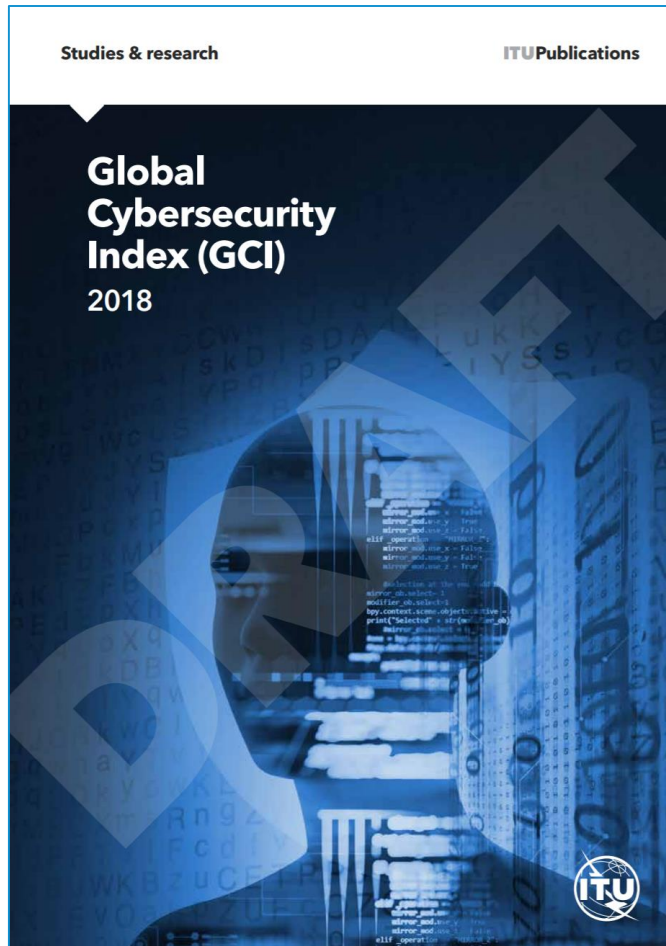
Goals

- Help countries identify areas for improvement
- Motivate action to improve relative GCI rankings
- Raise the level of cybersecurity worldwide
- Help to identify and promote best practices
- Foster a global culture of cybersecurity



GCI 19 Report available at <https://www.itu.int/en/ITU-D/Cybersecurity/Pages/global-cybersecurity-index.aspx>

GCI overall approach



Legal

Cybercrime legislation
Cybersecurity regulation
Containment/curbing of spam legislation



Technical Measures

CERT/CIRT/CSIRT
Standards Implementation Framework
Standardization Body
Technical mechanisms and capabilities deployed to address Spam
Use of cloud for cybersecurity purpose
Child Online Protection mechanisms



Organizational Measures

National Cybersecurity Strategy
Responsible Agency
Cybersecurity Metrics



Capacity Building Measures

Public awareness campaigns
Framework for the certification and accreditation of cybersecurity professionals
Professional training courses in cybersecurity
Educational programs or academic curricular in cybersecurity
Cybersecurity R&D programs
Incentive mechanisms



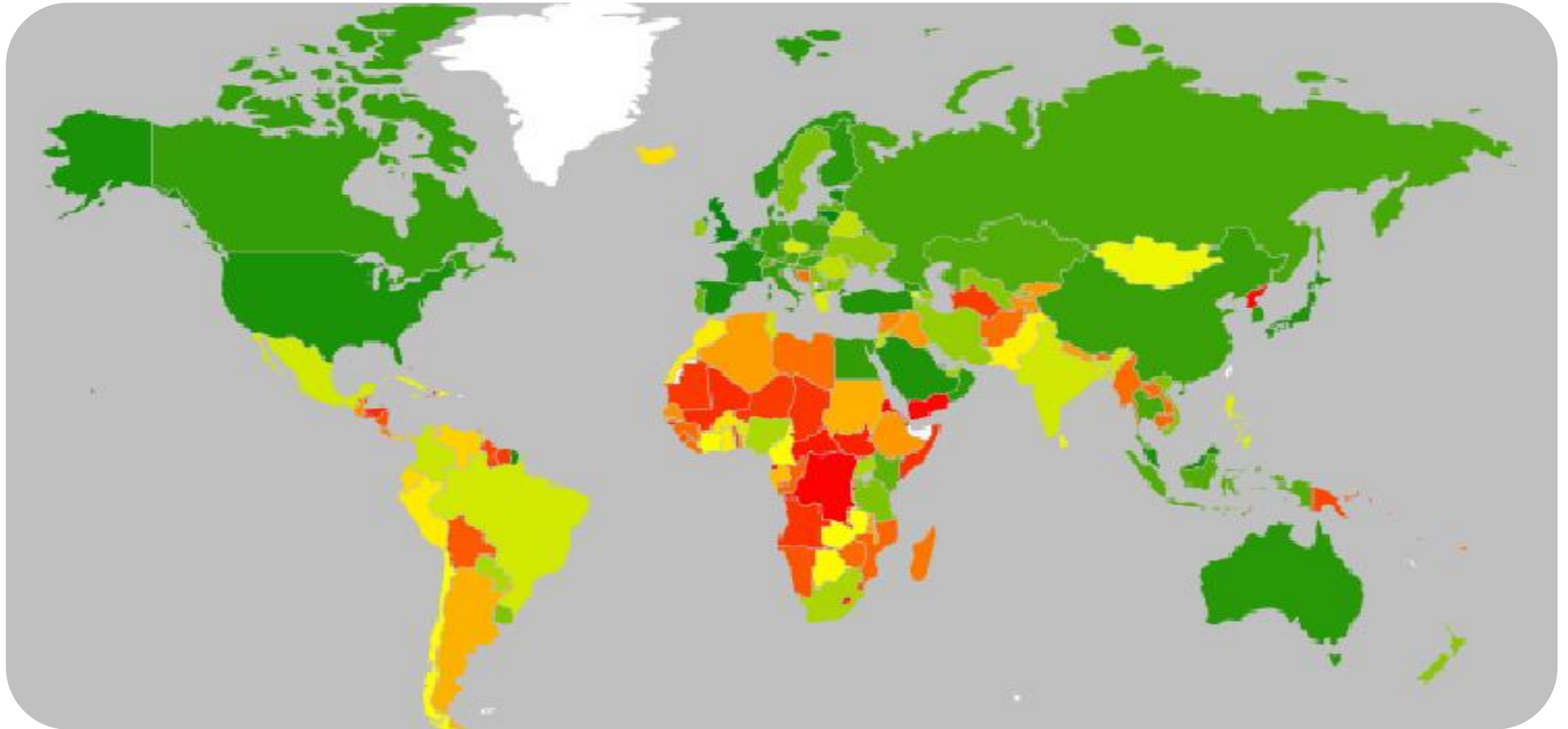
Cooperation Measures

Bilateral agreements
Multilateral agreements
Participation in international fora/associations
Public-Private Partnerships
Inter-agency/intra-agency partnerships
Best Practices



GCI 19 draft report at <https://www.itu.int/en/ITU-D/Cybersecurity/Pages/global-cybersecurity-index.aspx>

Heat Map



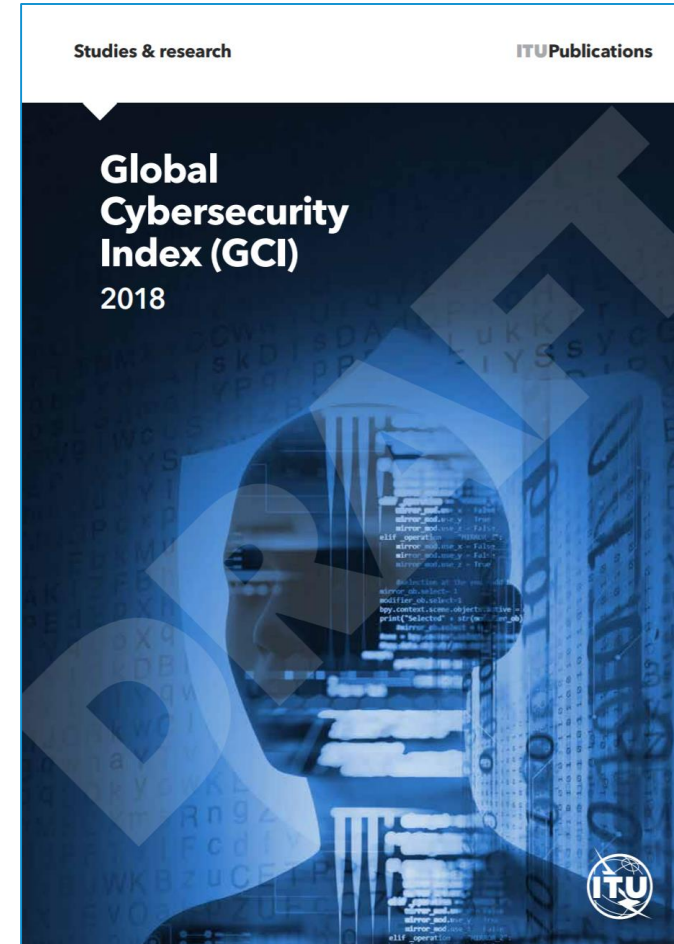
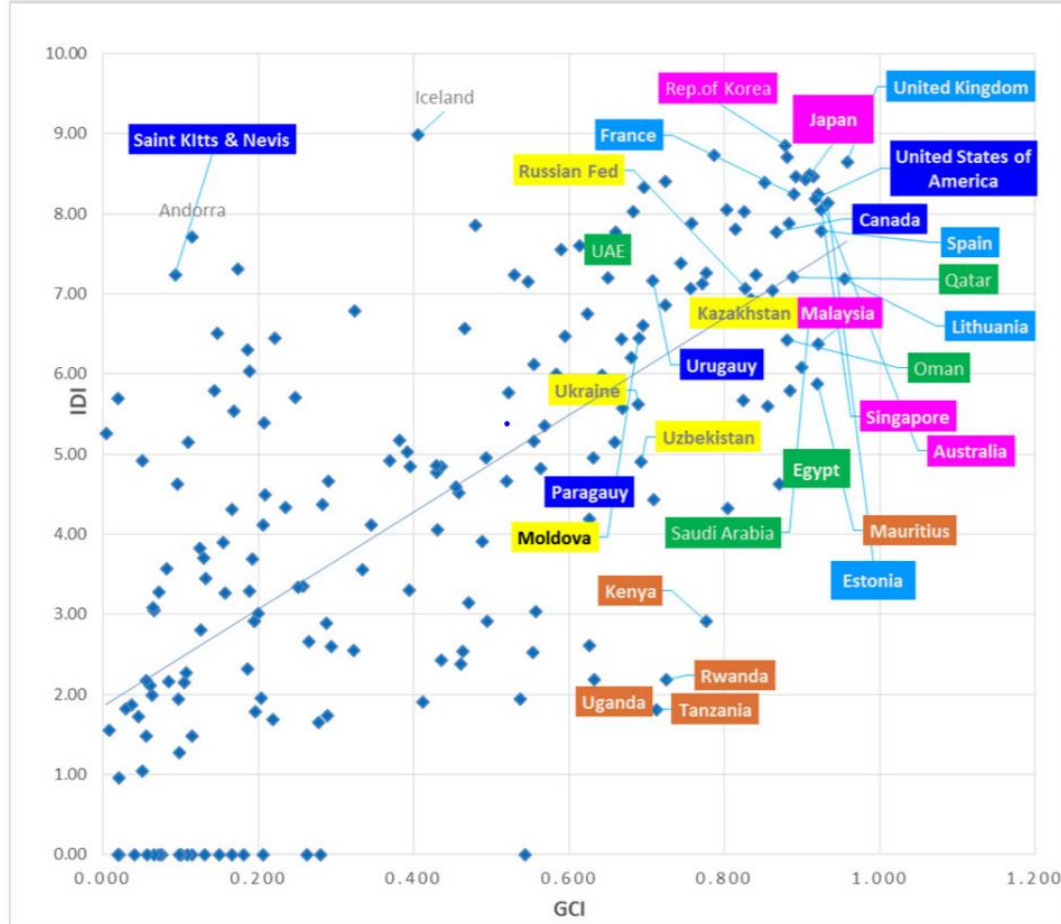
Commitment levels

 High

 Medium

 Low

GCI overall approach



GCI 19 draft report at <https://www.itu.int/en/ITU-D/Cybersecurity/Pages/global-cybersecurity-index.aspx>

State of Cybersecurity for Europe region (1)



- ✓ All countries have Cybercriminal legislation & Cybersecurity regulation
- ✓ 42 countries have national CIRTs
- ✓ 41 countries have Govt CIRTs
- ✓ 35 countries have sectoral CIRTs
- ✓ 34 countries have Cybersecurity standards implementation frameworks
- ✓ 41 countries have national Cybersecurity strategies
- ✓ 37 countries have an agency responsible for Cybersecurity
- ✓ 34 countries use Cybersecurity metrics at national level
- ✓ 36 countries have standardization bodies handling Cybersecurity
- ✓ 34 countries have good practices in Cybersecurity
- ✓ 41 countries have R&D programmes in Cybersecurity

Basic responses for Europe region (2)

- ✓ 39 countries conduct public awareness campaigns in Cybersecurity
- ✓ 40 countries have professional training courses in Cybersecurity
- ✓ 40 countries have Cybersecurity in national education programmes / academic curricula
- ✓ 26 countries offer incentive mechanisms to build capacity in Cybersecurity
- ✓ 35 countries have a home grown Cybersecurity industry
- ✓ 38 countries cooperate on Cybersecurity with other countries bilaterally
- ✓ 43 countries have multilateral cooperation with other countries in Cybersecurity
- ✓ 41 countries participate in international events/fora on Cybersecurity
- ✓ 40 countries have public private partnerships in Cybersecurity
- ✓ 34 countries have inter-agency partnerships in Cybersecurity

THANK YOU

ITU OFFICE for EUROPE

eurregion@itu.int

@ITU_EUR

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