Cyber Drill - ALERT

5th May 2015, Kigali, Rwanda

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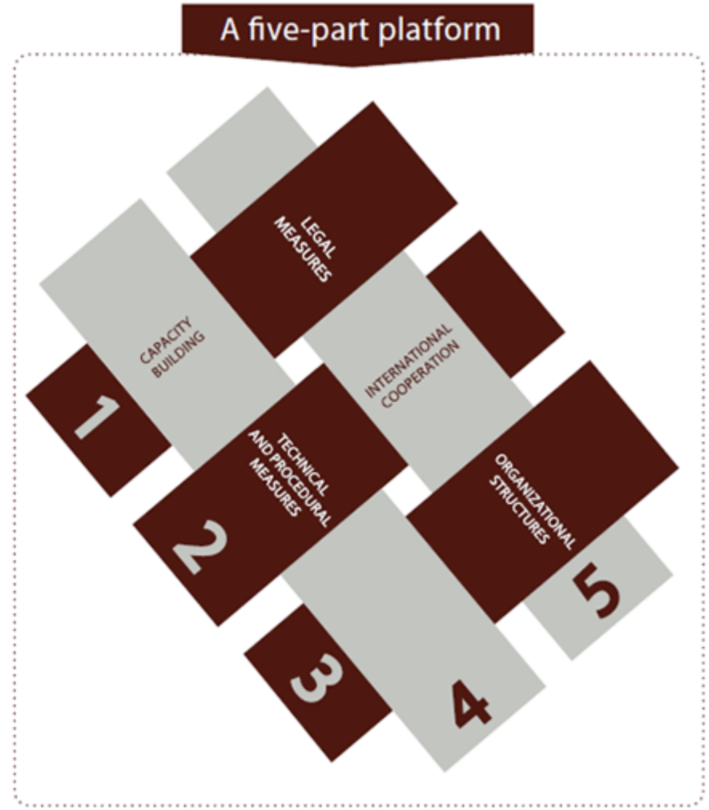
ITU & Cybersecurity

ITU Global Cybersecurity Agenda (GCA) is a framework for **international cooperation** aimed at enhancing confidence and security in the information society.

The GCA is designed for cooperation and efficiency, encouraging **collaboration with and between all relevant partners** and building on existing initiatives to avoid duplicating efforts.

The GCA has fostered initiatives such as:

- **Child Online Protection (COP)**
- **The Global Cybersecurity Index (GCI)**
- The ITU-IMPACT Partnership
- National CIRT Programme


A five-part platform
LEGAL MEASURES
CAPACITY BUILDING
INTERNATIONAL COOPERATION
TECHNICAL AND PROCEDURAL MEASURES
ORGANIZATIONAL STRUCTURES
1
2
3
4
5

Global Cybersecurity Index

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Global Cybersecurity Index

A Joint Collaborative Project between the ITU and ABI Research

Aims of the Project

Objective

Measure and Rank Each Nation State's Level of Cybersecurity Commitment

Goals

Foster a Global Culture of Cybersecurity

Integrate Security into the Core of Technological Progress

Drive Implementation Efforts Across Industries and Sectors

Promote Government Strategies at a National Level

Conceptual Framework

Following the Global Cybersecurity Agenda Framework, the GCI identifies 5 indicators

1. **Legal**
   - Criminal Legislation
   - Regulation and Compliance
2. **Technical**
   - CERT/CIRT/CSIRT
   - Standards
   - Certification
3. **Organizational**
   - Policy
   - Roadmap for Governance
   - Responsible Agency
   - National Benchmarking
4. **Capacity Building**
   - Standardization Development
   - Manpower Development
   - Professional Certification
   - Agency Certification
5. **Cooperation**
   - Intra-state Cooperation
   - Intra-agency Cooperation
   - Public-private Partnerships
   - International Cooperation

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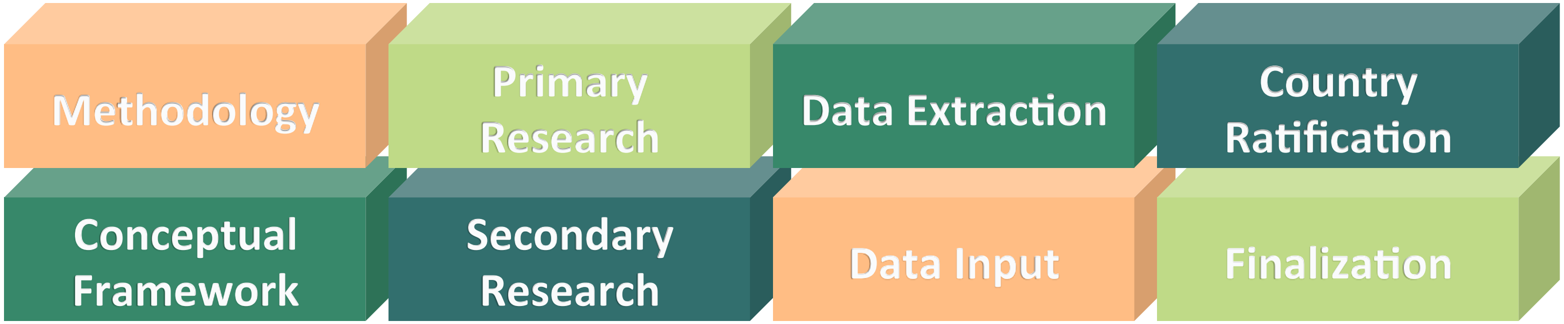
Timeframe and Project Activities

The project represents a combined effort of **18 months**, from inception to publication.

As well as a global rank, the GCI averages ranks in **6 regions**:

- Arab States
- Europe
- Asia-Pacific
- Americas
- Commonwealth of Independent States
- Africa

GCI Research Phases



Methodology

Conceptual Framework

Primary Research

Secondary Research

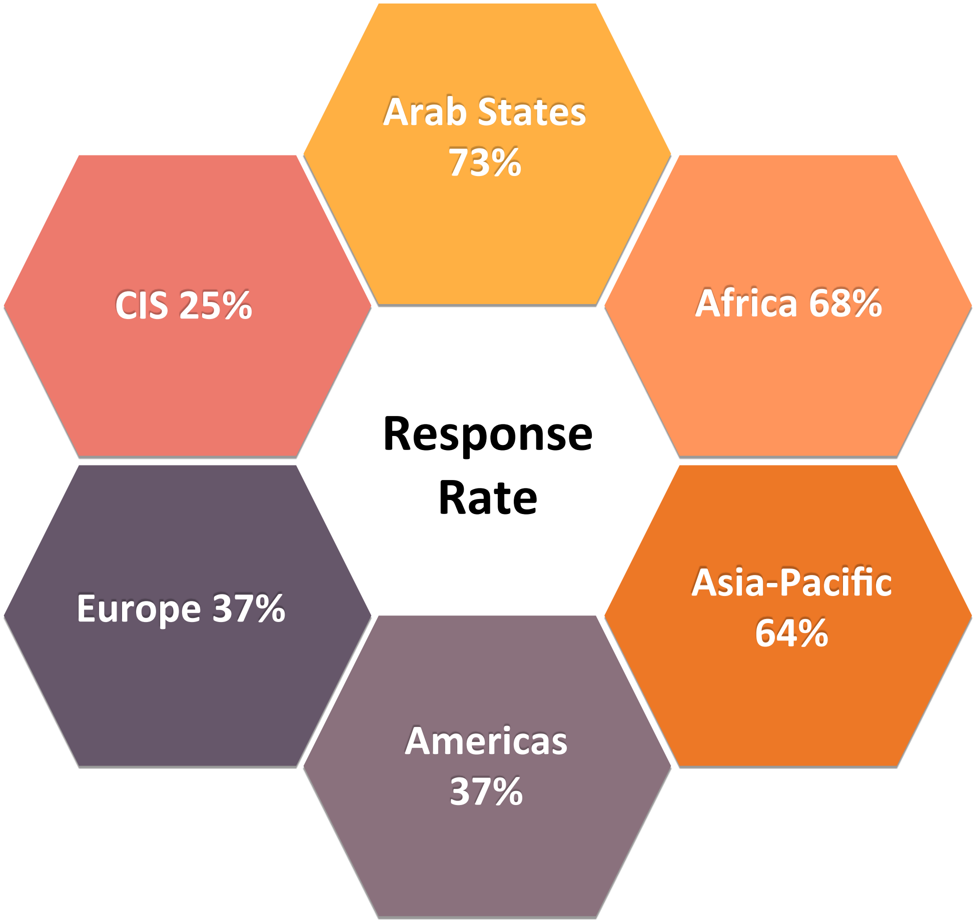
Data Extraction

Data Input

Country Ratification

Finalization

Primary Research



Arab States 73%

CIS 25%

Africa 68%

Response Rate

Europe 37%

Asia-Pacific 64%

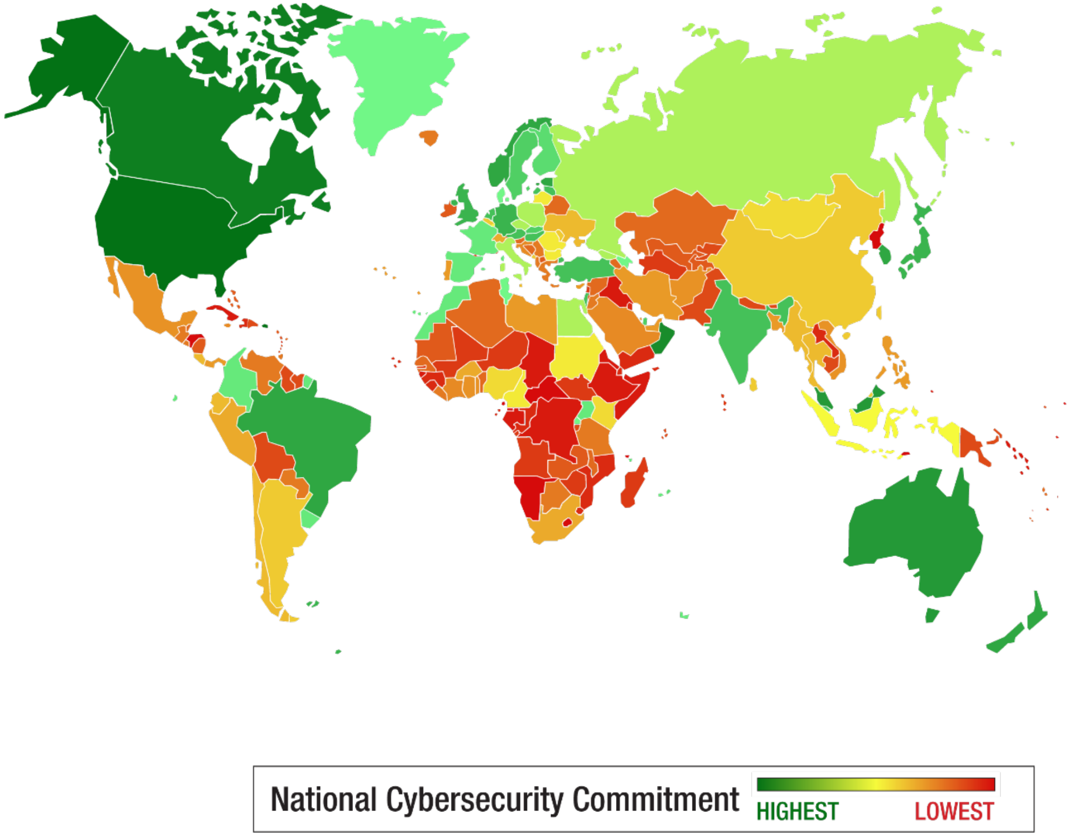
Americas 37%

- **Surveys** sent out to all ITU Member States
- Available in **English**, **French**, and **Spanish**
- **103** total responses received

GCI Results: Top 5

Country	Index	Global Rank
United States of America	**0.824**	**1**
Canada	**0.794**	**2**
Australia	**0.765**	**3**
Malaysia	**0.765**	**3**
Oman	**0.765**	**3**
New Zealand	**0.735**	**4**
Norway	**0.735**	**4**
Brazil	**0.706**	**5**
Estonia	**0.706**	**5**
Germany	**0.706**	**5**
India	**0.706**	**5**
Japan	**0.706**	**5**
Republic of Korea	**0.706**	**5**
United Kingdom	**0.706**	**5**

GCI Results: Heat Map



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URUGUAY

LEGAL MEASURES

- **Regulatory Framework on Cybersecurity**
- **Policy on Information Security** in Public Sector
- **Information Security Direction**
- National Computer Incident Response Centre **CERTuy Decree**
- Personal **data protection and habeas data action** Act
- EU Commission decision on the adequate **protection of personal data** by Uruguay (2012)
- Uruguay became the **first non-European state to join COE's personal data protection convention** (2013).

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OMAN

TECHNICAL

- **Oman National Computer Emergency Readiness Team** (OCERT)
- Oman's **Information Security Management Framework** is part of the overall ITA standards framework and is based on a structured collection of independent guidelines, processes, and practices, primarily from ISO 27001.
- **Information Technology Authority** (ITA) as a parent organization of OCERT is **ISO 27001 certified** and encouraging all organizations to adopt and implement the ISO 27001 framework.
- Through the **cybersecurity professional development service**, OCERT is providing professional **cybersecurity training** in different security domains by providing information security competency and capability courses and certifications.
- The training is **categorized to three levels** (Level 3, Level 2, and Level 1, with Level 1 being the most senior level).

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TURKEY

ORGANIZATIONAL

- The **National Cybersecurity Strategy and Action Plan** 2013-2014
- The action plan consists of **29 main actions** and **95 sub-actions** and assigns responsibilities about legislation, capacity building, development of technical infrastructure, *etc*.
- The **Cybersecurity Board** was established in order to determine the measures regarding cybersecurity; to approve the prepared plans, programs, reports, procedures, principles, and standards; and ensure their application and coordination.
- In the last 3 years, **three cybersecurity exercises** were organized at the **national level** with participants from both the public and private sector. The exercises played a big role in **raising awareness** of cybersecurity and also were a great tool for **measuring the development** of cybersecurity.

AZERBAIJAN

CAPACITY BUILDING

- Azerbaijan Ministry of Communications and High Technologies has officially recognized national or sector-specific **research and development programs/projects for cybersecurity** standards, best practices, and guidelines to be applied in the private and the public sector.
- The Technical Committee is to implement the **preparation of national standards** on the basis of international (regional) and interstate standards.
- Azerbaijan conducts **short training courses on E-government and information security**.
- AZ-CERT organizes **capture-the-flag competitions** to enhance professional competence in information security.
- The IT and Communications Department of the State Oil Company of Azerbaijan Republic (SOCAR) is **certified under ISO 27001:2005**.
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REPUBLIC OF KOREA

COOPERATION

- KISA has in place a number of **memorandums of understanding on cybersecurity cooperation** with the following: OCSIA (United Kingdom), INCB (Israel), Australia, CNCERT (China), STS (Kazakhstan), CERT Romania, Korea-China-Japan CERT, and private sector cooperation with Microsoft, Checkpoint, and McAfee.
- **Information Communications Infrastructure Protection Committee** to decide and deliberate on protection of critical ICT infrastructure to guarantee national security and stabilize the life of the people
- **National Cybersecurity Conference**: Private/public/military response team (Article 8) organized and operated for decision-making on cyberthreats, situation monitoring, analyzing of threats, and joint investigation
- **Cooperation and participation** in meetings with **APCERT** (Asia-Pacific Computer Emergency Response Team), **FIRST** (Forum of Incident Response and Security Teams)

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GCI 2.0

The Global Cybersecurity Index will have a 2.0 iteration

The project will be **open to participation** with new partner organizations that wish to contribute to the GCI 2.0 research and development.

Why Participate as a GCI Partner?

- **Cooperation** is an intrinsic element of cybersecurity and we encourage the sharing of information at this international level.

- **Better measurement** capabilities will provide better support for cybersecurity development at the nation state level.

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GCI Website

http://www.itu.int/en/ITU-D/Cybersecurity/Pages/GCI.aspx