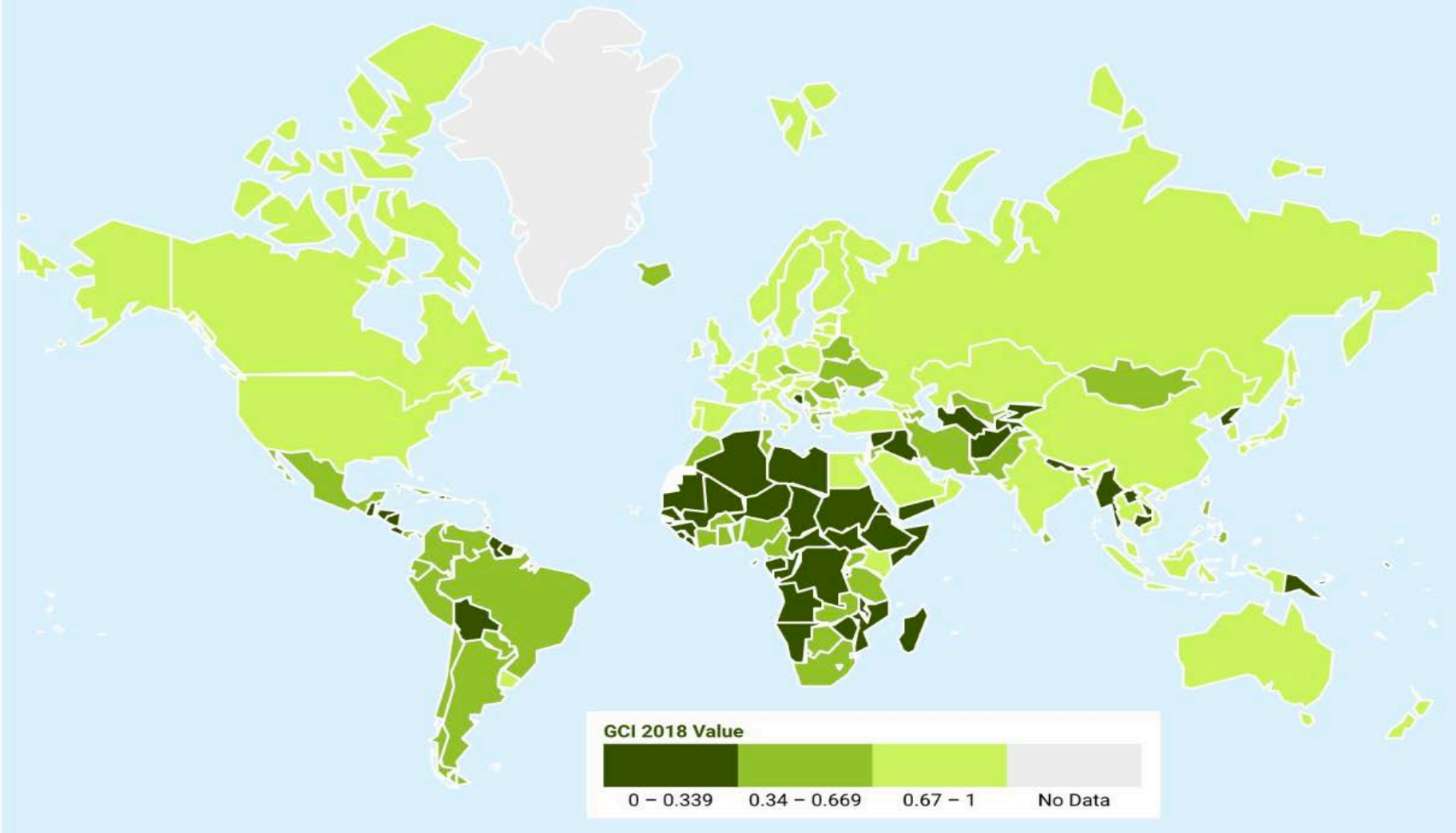


# Introduction to the dimensions of digitalisation

Module 3.4  
Cyber Security



ITU Global Cyber Security Index 2018

## Heat map of national Cyber Security commitment

1. 
2. 
3. 

Countries that demonstrate high commitment in all five pillars of the index.

Countries that have developed complex commitments and engage in cybersecurity programmes and initiatives.

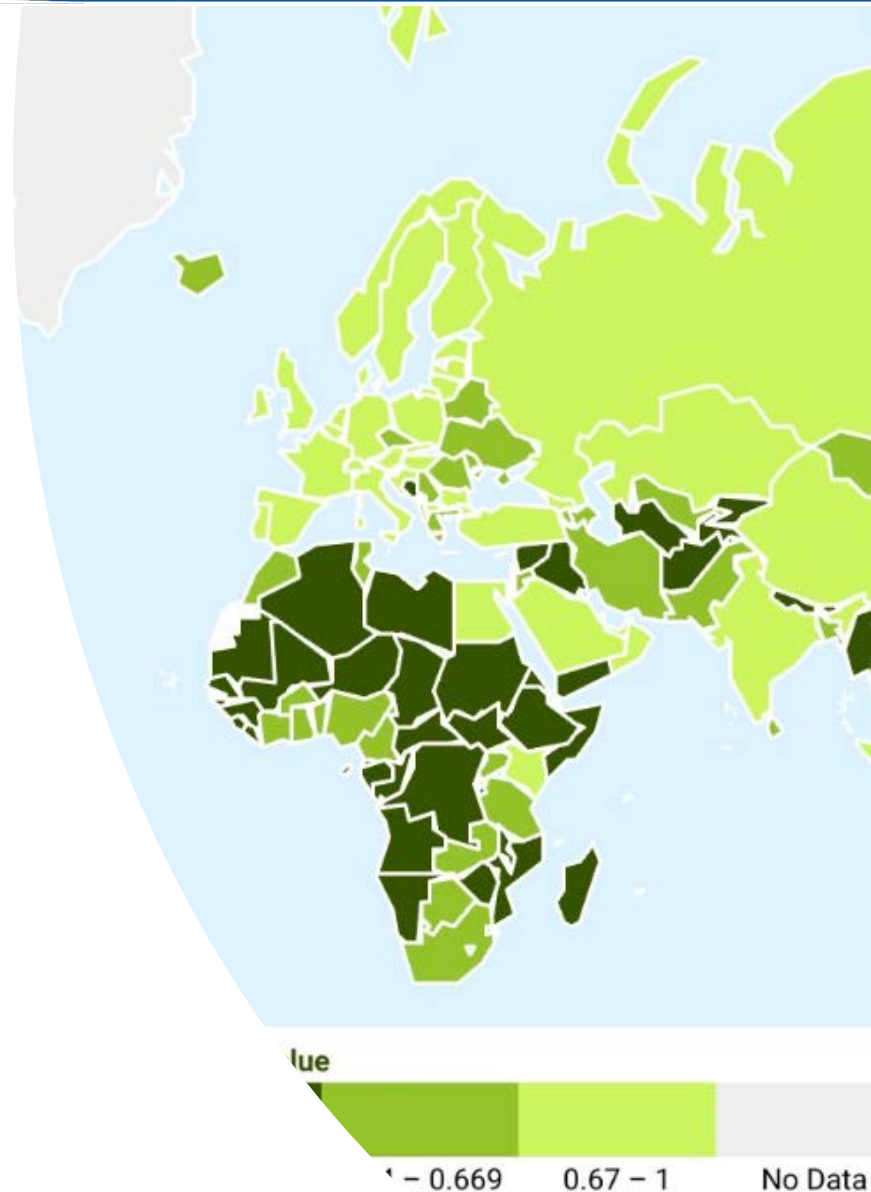
Countries that have started to initiate commitments in cybersecurity.



# Cyber Security

## Status quo in Africa

- **Few governments** in the region have implemented national **cyber strategies**
- Only **20 percent** of the African states have implemented a **legal framework** for cybersecurity, and only 11 countries have enacted substantial laws to fend off cybercrime
- **Cybercrime** in Africa is becoming more sophisticated and creating **significant financial losses**: Cybercrime cost Africa an estimated US\$3.5bn in 2017



# Cyber attacks are growing and become more sophisticated



# Hacks



**Ministry of Health HIV registry:** In Singapore, the Ministry of Health admitted to a data breach exposing the confidential and highly sensitive records of over 14,000 individuals diagnosed with HIV. This information was then leaked online.

**Apple FaceTime:** A Fortnite player found a bug in Apple iOS that allowed users to eavesdrop on an iPhone's environment by calling but without it being answered. It may have also been possible to view live video feeds.

**Del Rio ransomware:** The City of Del Rio, in Texas, was forced to go back to pen-and-paper systems after City Hall servers were rendered useless by a ransomware infection.

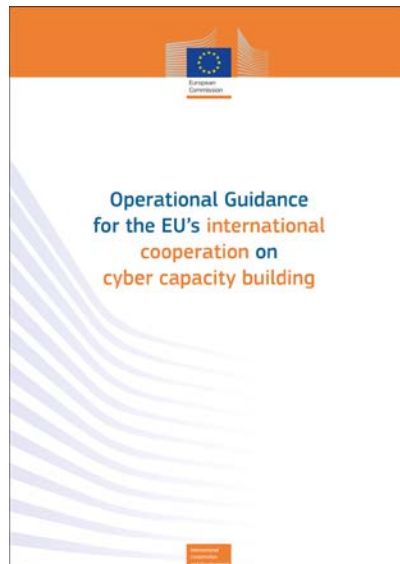
**Cabrini Hospital:** A ransomware infection locked up 15,000 patient files, with operators demanding payment in return for a decryption key.

**Tornado sirens:** Ahead of a major storm, two Texan cities were forced to pull tornado warning systems offline after a threat actor compromised them and set off over 30 false alarms.

**Banks:** Bangladesh, India, Sri Lanka, and Kyrgyzstan banks were hit in quick succession by 'Silence' hackers, allegedly stealing millions of dollars in the process.

# Cyber Security

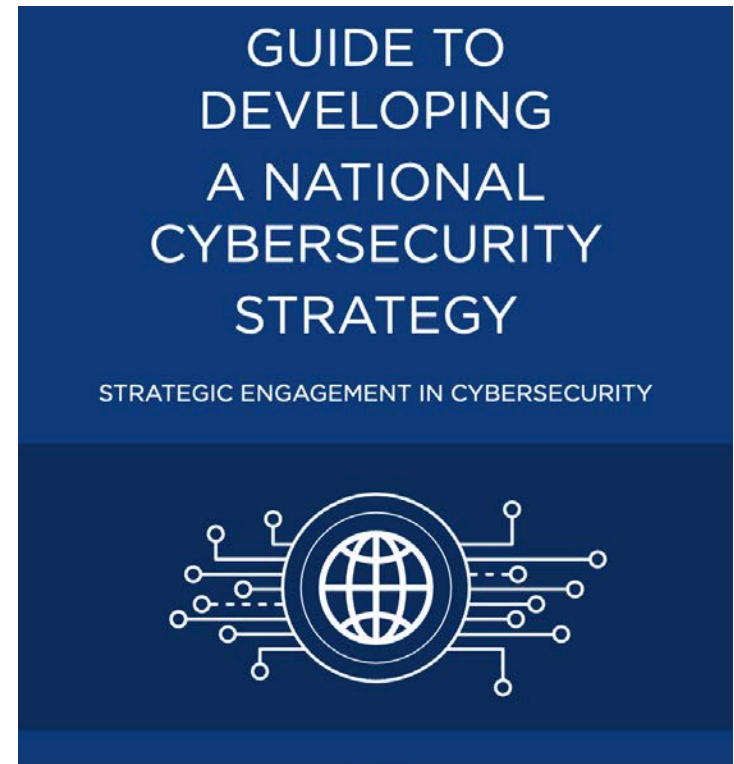
## Key stakeholders



# Designing Cyber Security Measures: Helpful Guidance



Operational Guidance  
for the EU's **international**  
**cooperation on**  
**cyber capacity building**



# Designing Cyber Security Measures:



**CYBERSECURITY CHECKLIST**



# Cyber Security

## Group discussion: Country assessment

**What is the current state of discussion on cyber security policy in your country?**

- What are the major threats?
- What are the policy objectives?
- What are the existing institutional capacities?



**10 min**