

# INTERNATIONAL CONFERENCE MEASURING DEVELOPMENT IN TURBULENT TIMES

November 28-29, 2017  
Bucharest,  
Romania



Organised by:



SECRETARIATUL GENERAL  
AL GUVERNULUI



ȘCOALA NAȚIONALĂ DE STUDII  
POLITICE ȘI ADMINISTRATIVE

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GLOBALSTAT  
DATABASE ON DEVELOPMENTS IN A GLOBALISED WORLD



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Competența face diferență!

Proiect selectat în cadrul Programului Operațional Capacitate Administrativă cofinanțat de Uniunea Europeană, din Fondul Social European.

# Cyberspace - no frontiers, plenty of opportunities, no limits to threats

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Bitdefender® CYBERTHREAT  
REAL-TIME MAP



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## Opportunities in digital era

### Conectivity

- People
- Things
- Organisations

### Knowledge based society

- Education&training
- Cultural heritage
- E-library

### Economy

- E-commerce
- Distributed chain of production
- ITC technology

## 10 cyber of shades!





## Future?

Cyber crime damage costs to hit \$6 trillion annually by 2021

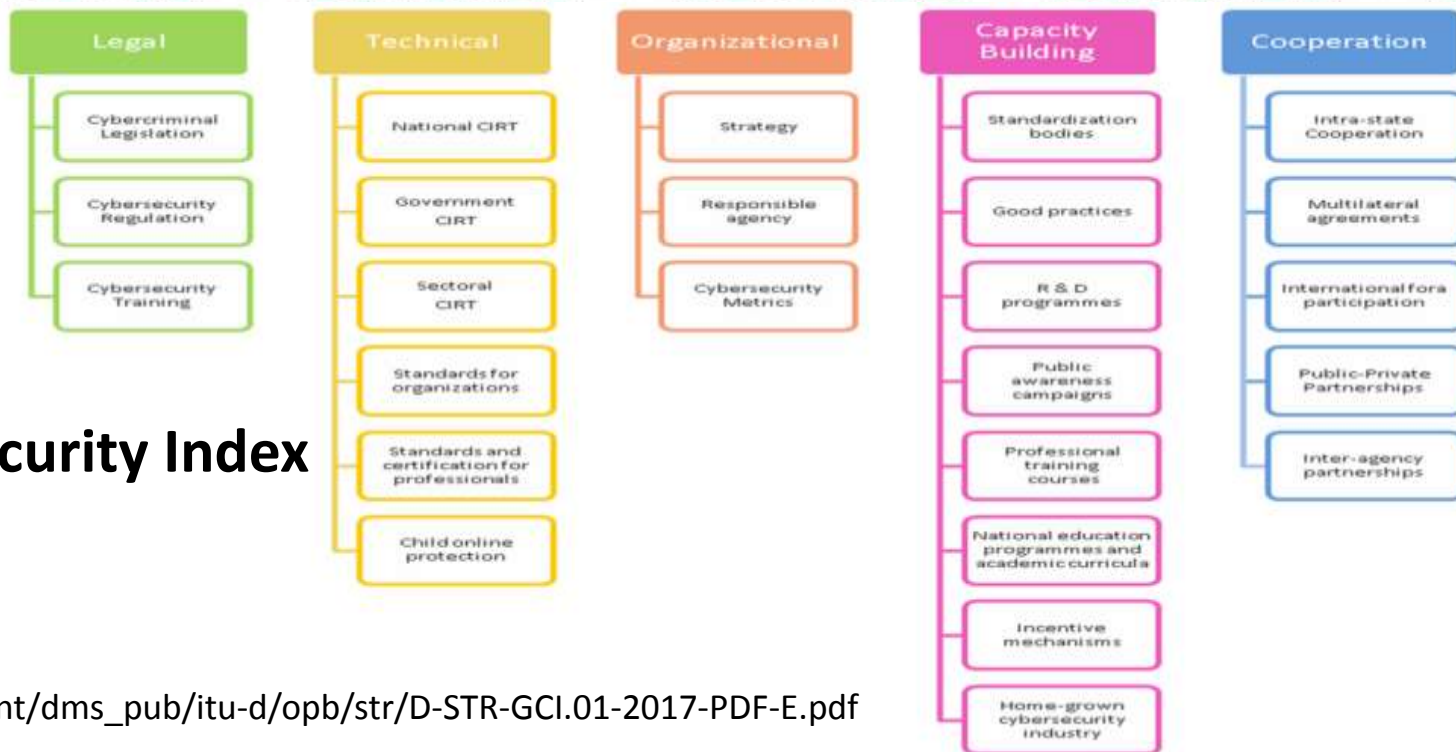
Cybersecurity spending to exceed \$1 trillion from 2017 to 2021

Cyber crime will more than triple the number of unfilled cybersecurity jobs, which is predicted to reach 3.5 million by 2021

Human attack surface to reach 6 billion people by 2022

Global ransomware damage costs are predicted to exceed \$5 billion in 2017

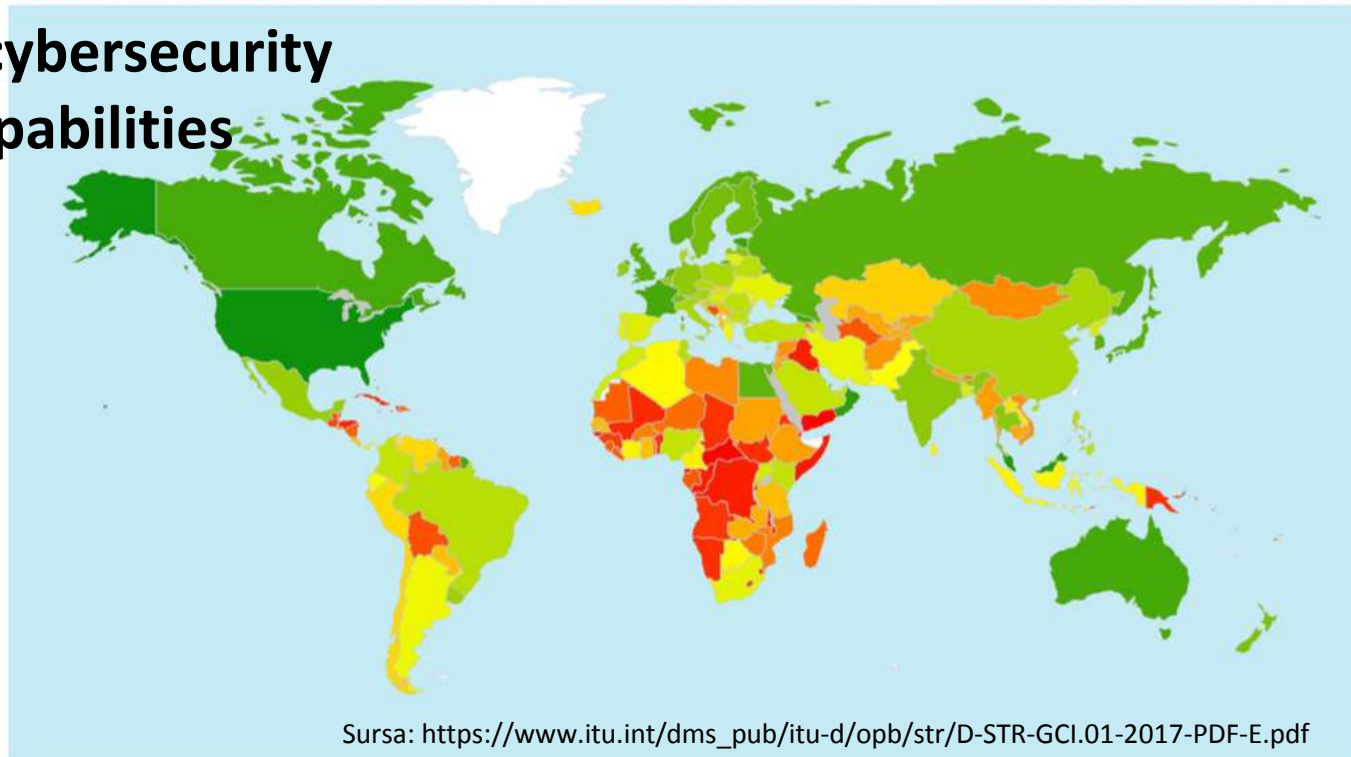
Sursa: <https://www.csoonline.com/article/3153707/security/top-5-cybersecurity-facts-figures-and-statistics-for-2017.html>



## Global Cybersecurity Index

Sursa: [https://www.itu.int/dms\\_pub/itu-d/opb/str/D-STR-GCI.01-2017-PDF-E.pdf](https://www.itu.int/dms_pub/itu-d/opb/str/D-STR-GCI.01-2017-PDF-E.pdf)

## The map of the cybersecurity integrated capabilities





## Comparing Romania with...

	Cybercriminal legislation	Cybersecurity legislation	Cybersecurity training	LEGAL MEASURES	National CERT/CIRT/CSIRT	Government CERT/CIRT/CSIRT	Sectoral CERT/CIRT/CSIRT	Standards for organizations	Standards for professionals	Child online protection	TECHNICAL MEASURES	Strategy	Responsible agency	Cybersecurity metrics	ORGANIZATIONAL MEASURES	Standardization bodies	Cybersecurity good practices	R&D programmes	Public awareness campaigns	Professional training courses	Education programmes	Incentive mechanisms	Home-grown industry	CAPACITY BUILDING	Bilateral agreements	Multilateral agreements	International participation	Public-private partnerships	Interagency partnerships	COOPERATION	GCI
Estonia	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Romania	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Bulgaria	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Russian Federation	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

## Romania overview

### Cybersecurity legislation

- National cybersecurity strategy
- Privacy regulation (GDPR?)
- Partnership agreements

### Cybersecurity training

- Specialized engineering programs
- Blue team training
- Cybersecurity management, legal advisory and audit
- Cybersecurity citizens culture (educate the users)

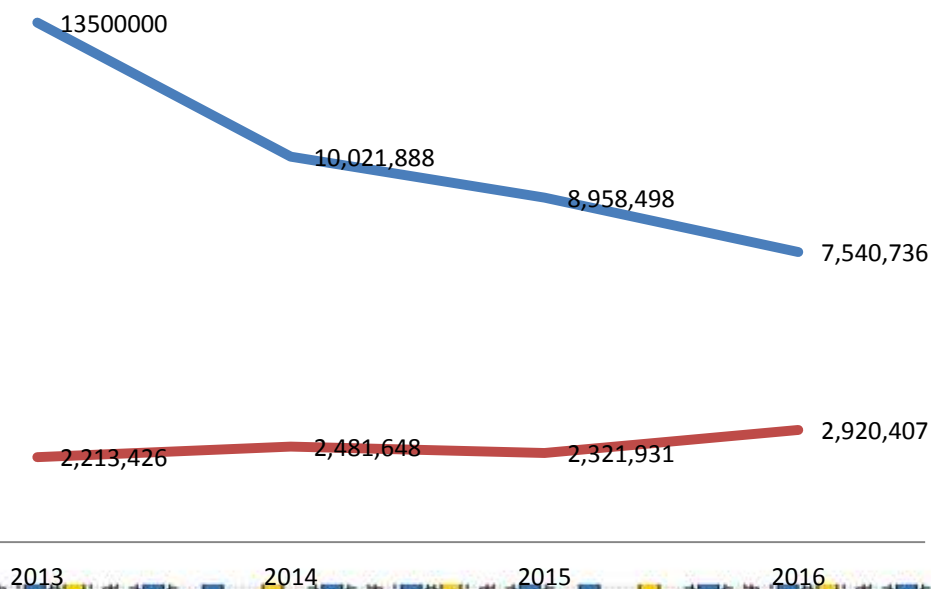
### Standards

- Must be govt. technical standards
- Recommended standards for public and private sectors
- SCADA and Critical Infrastructures regulations

### Metrics

- Cybersecurity alerts (CERT – RO)
- Impact of cyber incidents
- Resilience

— Total IPs Romania — IPs affected



Data provided by CERT-RO

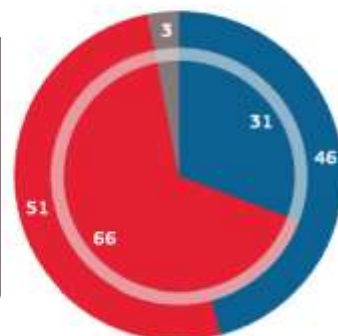


## Ransomware in Romania



## 2. LEVEL OF AWARENESS AND CONCERNS ABOUT INTERNET SAFETY

**QB10** How well informed do you feel about the risks of cybercrime?  
(%)



EU28 ■ Outer pie RO ■ Inner pie

● Total 'Well informed'  
● Total 'Not well informed'  
● Don't know

EU28		RO	
EB87.4	EB87.4-EB82.2	EB87.4	EB87.4-EB82.2
46	- 1	31	*
51	+ 1	66	- 2
3	=	3	+ 2

Evolution June 2017 (EB87.4) / October 2014 (EB82.2)

**QB8** What concerns do you have, if any, about using the Internet for things like online banking or buying things online? (MULTIPLE ANSWERS POSSIBLE)  
(%)



■ EU28 ■ RO

# Thank You!

