Itu regional workshop

"Key Aspects of Cybersecurity in the Context of Internet of Things (IoT)"

> Natalia SPINU 18 September, 2017 Tashkent, Uzbekistan

AGENDA

1. INTRODUCTI ON

2. Moldovan public policy on cybersecurity

3. RECOMMEN DATIONS

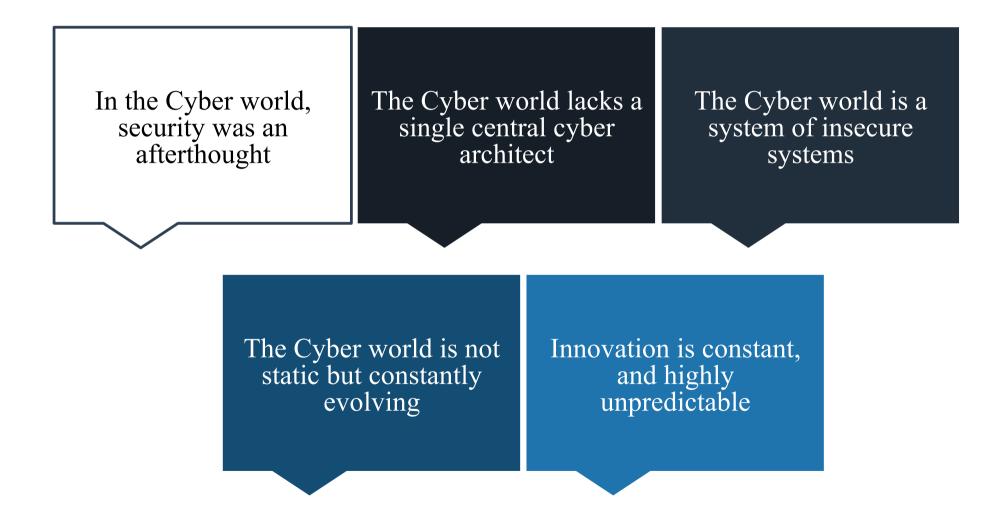
Introduction

WHY THIS MATTERS TO YOU

Growing space with rapid expansion	 Across all sectors: individuals, commerce, governments Growing pervasiveness in everything we do 	
Many threats	 Cyber criminals, hacktivists, terrorists, state-sponsored, hackers, amateurs, insiders, trusted partners and many other 	
Cyber Security is an	 Considerable uncertainty, broad scope, and ever-changing dimensions 	
unclear concept	 Cyber security definitions vary widely and lack true conformity 	
Cyber is a chaotic and	 Increasing tension between governments, individuals, private enterprises, commence. 	
ungoverned environment	What is cyber defense?	
	 Technological advancement 	
Early stages of cyber	 Fast and intense competition 	
expansion	 An uncertain future of the cyber domain, the internet and more 	
Government roles increasing in number and importance		

THE CYBER SECURITY CHALLENGE...

When...



WHY?

3) Complex Trust relationships between cyber domains

Cyber security affects every person who

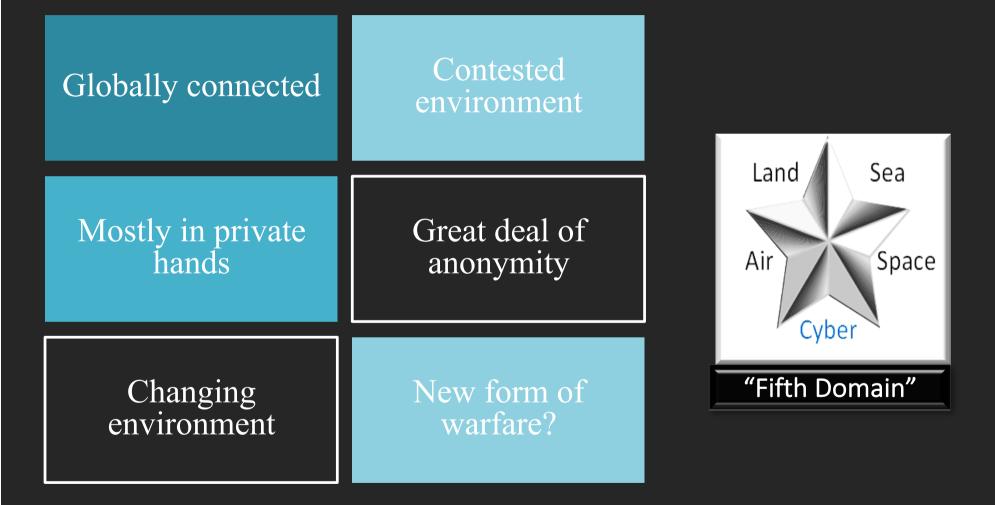
Trust is foundational

- Who is not connected in some way?
- Uses a smart phone, computer, automated banking, GPS, and modern medicine
- Rapid expansion. The Internet of Things....
- Machine to machine interaction

How do organizations find the right balance of trust, transparency, and privacy?

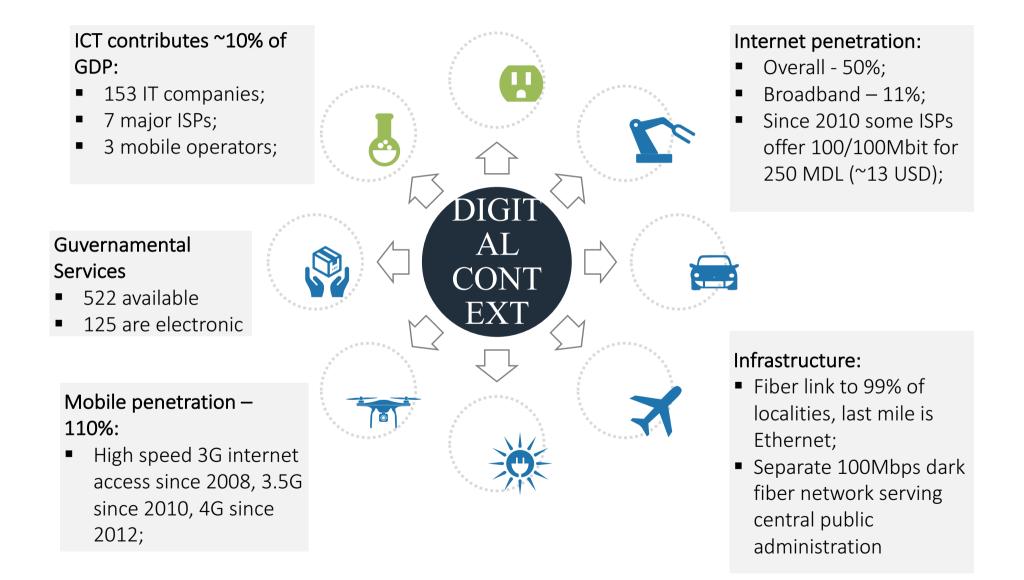


HOWEVER, WHAT DO WE KNOW ABOUT CYBERSPACE?



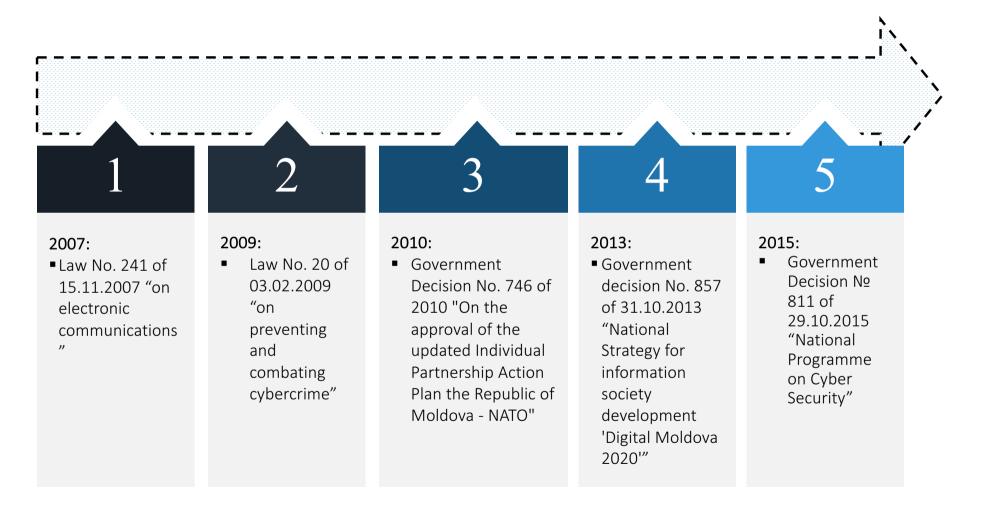
Moldovan public policy on cybersecurity

DIGITAL CONTEXT



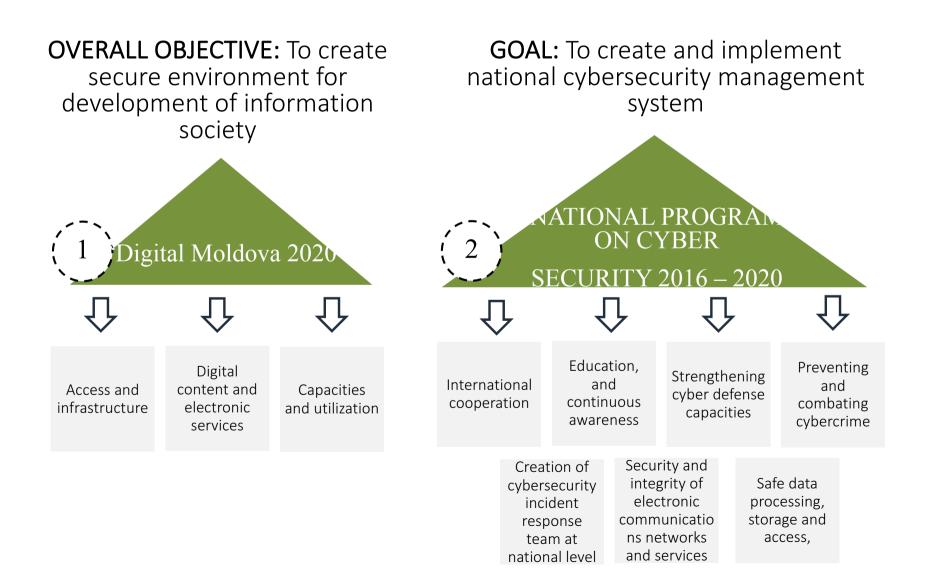
EVOLUTION

of Moldovan Public Policy on Cybersecurity



DUALISM OF DEVELOPMENT VECTORS

of Moldovan Public Policy on Cybersecurity





INTERNATIONAL COOPERATION

Most active cooperation partners of Moldova on cybersecurity

States and unions **European Union** United States South Korea Estonia Cybersecurity Community CSIRTs and CSIRT communities Specialized organizations Private companies Independent experts

International CYBERSEC URITY COOPERATION

International organizations

International Telecommunication Union

Organization for Security and Co-operation in Europe

North Atlantic Treaty Organization

United States Agency for International Development

Council of Europe

Regional Commonwealth in the field of Communications

MAIN CHALLENGE

Insufficiency of international cooperation in identifying risks, vulnerabilities, other events occurring in the world cyberspace, and preventing cross-border cyber threats and attacks.

National Programme on Cyber Security Government Decision № 811 of 29.10.2015

INTERNATIONAL COOPERATION

Approved course of actions

Strengthening cooperation with international CSIRTs	Signing cooperation agreements with US-CERT, NCERT and other CSIRTS
Development of capacities for technical interaction	Creation of platform for international consultation and coordination on cyber threats
Development of Public- Private Cooperation	Establishing of contact points, organisation of regular meetings
Promotion of national interests at international arena	Promotion of national interests at international arena
Strengthening cooperation between national universities and leading EDUCATIONAL companies	Development of cooperation with (ISC) 2, ISACA, SANS and other institutions

EDUCATION AND CONTINUOUS AWARENESS

Core problems

(1) Citizen are not conscious that their electronic devices might be already hacked

 "In spite of a big number of cybersecurity victims, only a few citizen are conscious that their electronic devices (mobile phones, tablets, notebooks, computers, etc.) might be compromised by cyber attacks through the Internet. That fact significantly contributes to the grow of cyber crimes exploiting the vulnerability of human character." (National Program on Cybersecurity)

(2) Lack of continuous education and awareness in cybersecurity area



EDUCATION AND CONTINUOUS AWARENESS

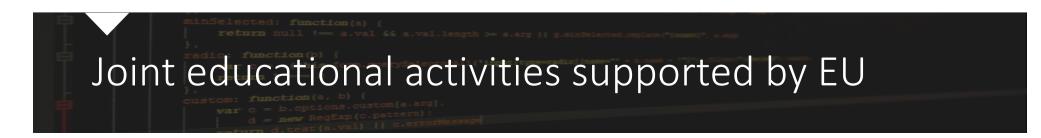
Policy plan

(1)	Awareness campaigns	Development of awareness in the regard of existing risks of cyberspace
	Educational curriculum	Augmentation of cybersecurity educational curriculum
*	Awareness portal	Creation of awareness portal for informing about current cyber threats
	Competence requirements	Adoption of the requirements to the competence of employees in cybersecurity domain both in private and public sectors
S	Cybersecurity trainings	Organization and implementation of trainings and workshops on cybersecurity for public and private personnel, holders of critical infrastructure
	Cybersecurity laboratory	Creation of cybersecurity laboratory

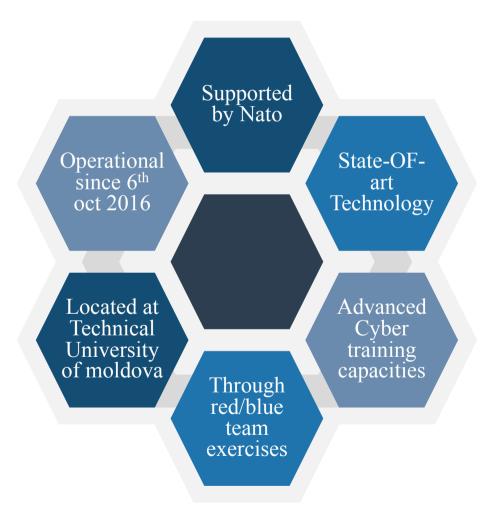
EDUCATION AND CONTINUOUS AWARENESS

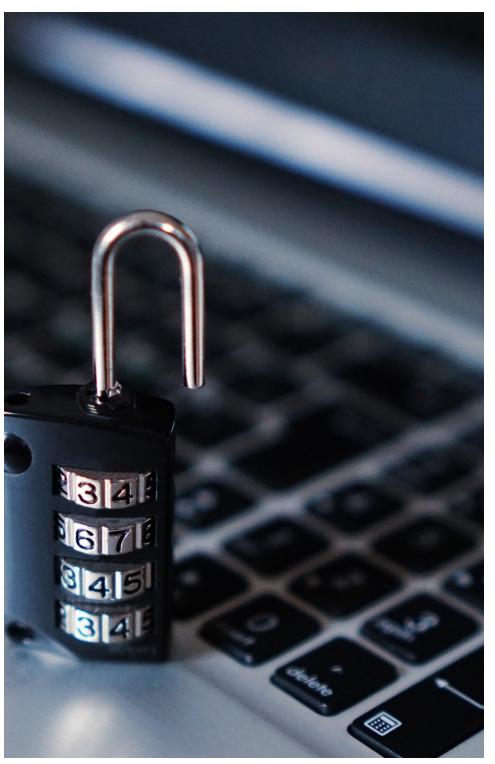
Policy implementation achievements. Cybersecurity trainings





POLICY IMPLEMENTATION ACHIEVEMENTS





RECOMMENDATI ONS

RECOMMENDATIONS

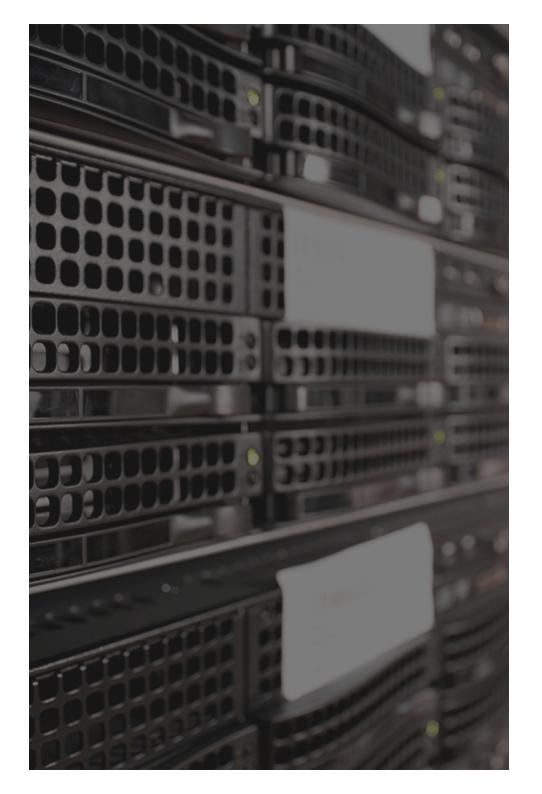
Tips for Implementing a Cybersecurity Program

FOCUS ON CRITICAL INFORMATION	What effect does an attack on your business have and what can be done about it?
EVALUATE A CYBER INCIDENT RESPONSE PLAN	What vulnerabilities have been identified and how have they been resolved?
LOOK OVER THE BUDGET	Is the cybersecurity budget being used appropriately?
BE INFORMED ABOUT KEY RISK INDICATORS	Do you know enough about defence, monitoring, risk and data protection?
WORK WITH INTERNAL AND EXTERNAL SPECIALISTS	Are you constantly being briefed on new developments in technology and cybersecurity?
FOLLOW THE SAFTEY RULES OF EXTERNAL PROVIDERS	What are the privacy and security policies of external providers? Do they meet your requirements?
COMPLY WITH LAWS/ REGULATIONS FOR CYBERSECURITY	Are you keeping up-to-date with the latest cyber threats and new laws?

RECOMMENDATIONS

Tips for dealing with challenges





THANK YOU!

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