

# State of Cybersecurity in the European Union

### **ITU Cyber Drill – ALERT for European Region** 29 May 2019 Bucharest, Romania

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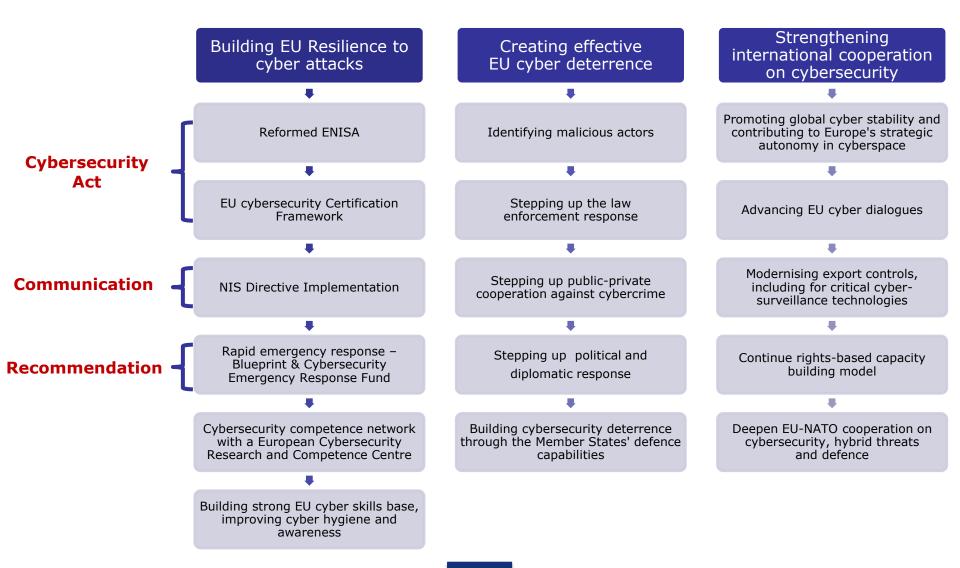


'Cyber-attacks know no borders, but our response capacity differs very much from one country to the other, creating loopholes where vulnerabilities attract even more the attacks. The EU needs more robust and effective structures to ensure strong cyber resilience and respond to cyber-attacks. We do not want to be the weakest links in this global threat.'

Jean-Claude Juncker, Tallinn Digital Summit, 29 September 2017









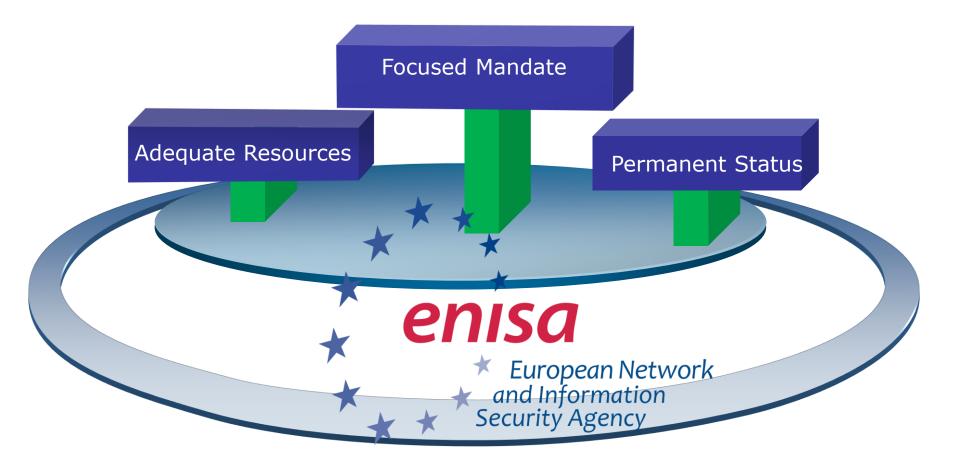
# **EU Cybersecurity Act**

Towards a reformed EU Cybersecurity Agency

and reinforcing the cybersecurity single market in the EU



## What's new with the new proposal?





### **Cybersecurity Certification**

#### A voluntary European cybersecurity certification framework....



...to enable the creation of **tailored** EU cybersecurity certification **schemes** for ICT products and services...

...that are valid across the EU

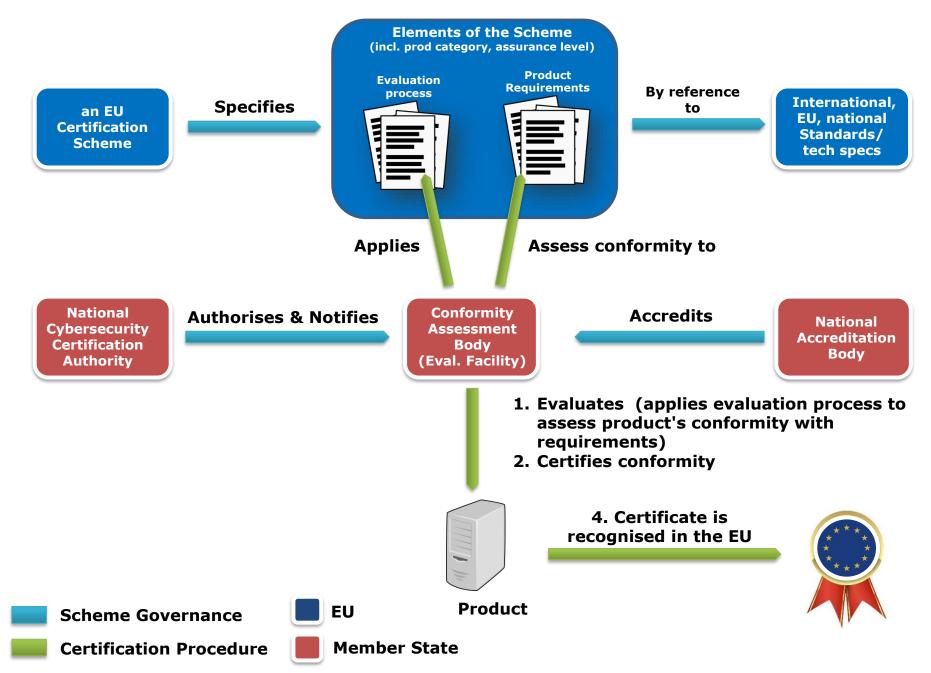




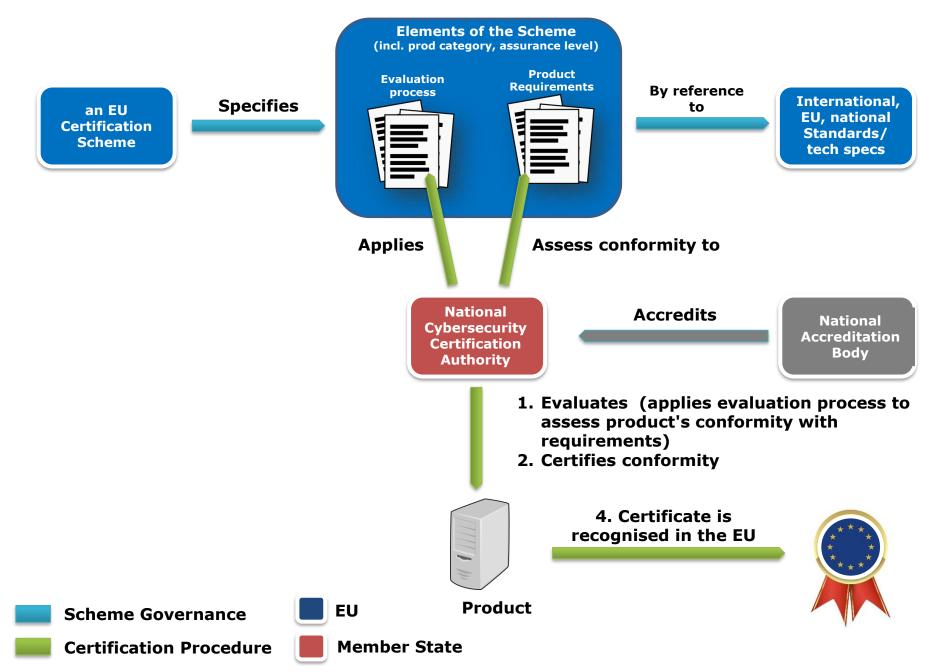
### The EU Cybersecurity Certification Framework

- Cybersecurity Certification Schemes
- Security Objectives
- > Assurance levels: Basic, Substantial, High
- Elements of a cybersecurity certification scheme include:
  - Scope product/service or category(ies) thereof
  - references to the international, European or national standards and to technical specifications
  - > one or more assurance levels
- conditions for the mutual recognition of certification schemes with third countries;

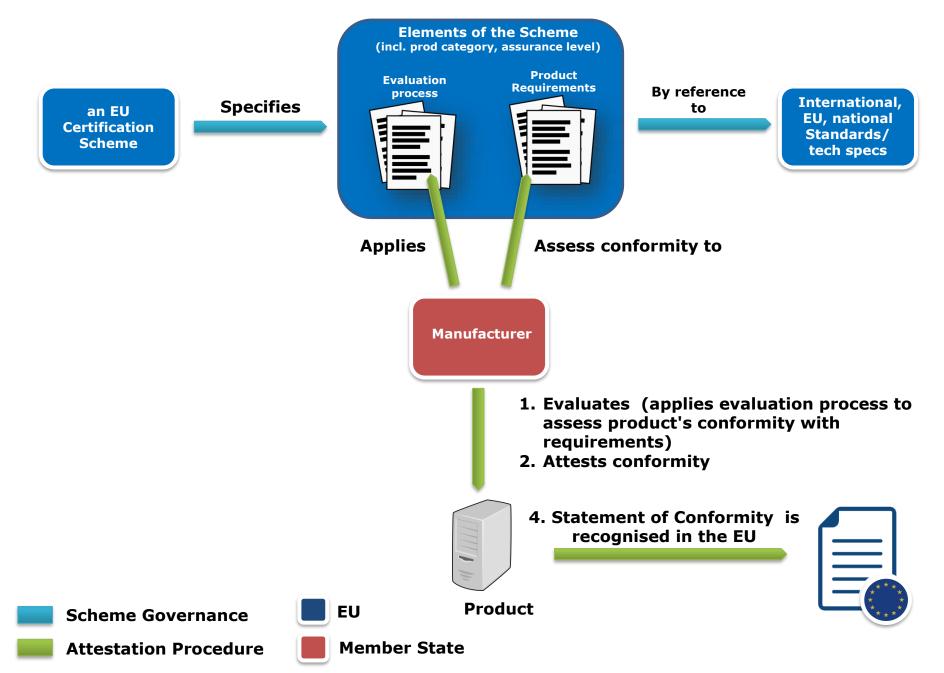
### European Cybersecurity Certification Scheme (Basic, Substantial)



### European Cybersecurity Certification Scheme (High)



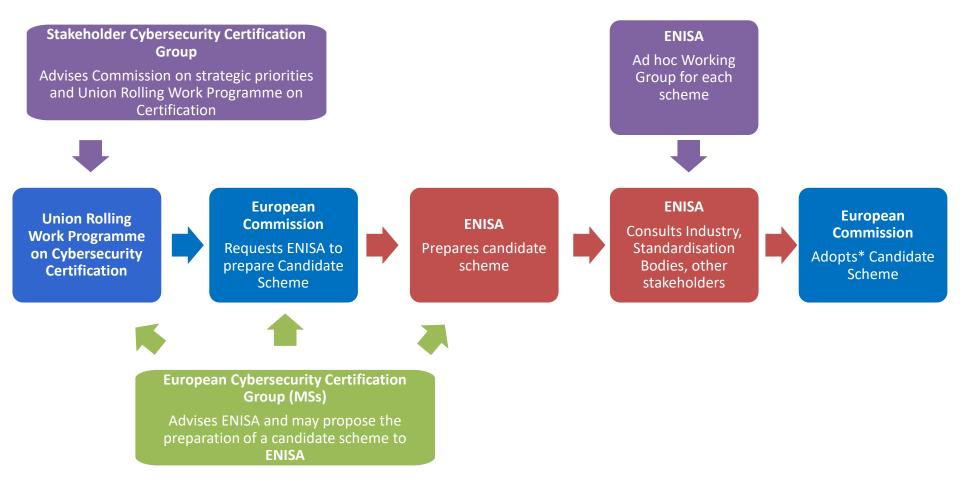
### Conformity self-assessment (AL Basic only)





### The EU Cybersecurity Certification Framework

### The lifecycle of a European Cybersecurity Certification Scheme





# **NIS Directive**



## **NIS Directive: Main Features**



#### **GREATER CAPABILITIES**

Member States have to improve their cybersecurity capabilities.

NATIONAL COMPUTER SECURITY INCIDENT RESPONSE TEAM (CSIS-RT)

NATIONAL NIS STRATEGY

NATIONAL NIS AUTHORITY

HONAL NO SHATEOT

COOPERATION

Increased EU-level cooperation



EU MEMBER STATES; EU ROPEAN COMMISSION; EUROPEAN UN ON AGENCY FOR NETWORK AND INFORMATION SECURITY EU MEMBER STATES, CERT-EU, EUROPEAN UNION AGENCY FOR NETWORK AND INFORMATION SECURITY



Operators of essential services and Digital Service Providers have to adopt risk management practices and notify significant incidents to their national authorities.



NOTIFICATION OF MAJOR INCIDENTS



# NIS implementation one year later

## Close to full transposition

•Many Member States identified Operators of Essential Service (Commission to issue soon a report)

#### **Cooperation Group**

- •9 Work Streams
- •11 Plenary meetings
- •10 Reference documents delivered (on the implementation of the Directive as well as wider cybersecurity issues)
- •2 table-top exercises. One already performed (on EU elections) and one which will take place in July (blueprint operational layer).

#### **CSIRTs Network**

- •7 meetings (continuous exchange through common facilities)
- •2 exercises testing Standard Operating Procedures.



# Blueprint - coordinated response to large-scale cybersecurity incidents and crises

Resilience through crisis management and rapid emergency response



# **Blueprint - Response**



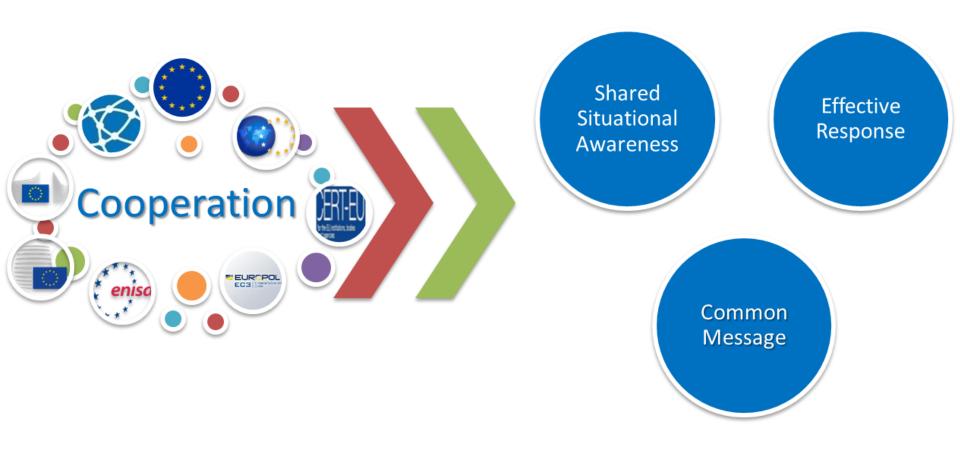


# **Definition: large-scale cybersecurity incidents and crises**

incidents which cause disruption too extensive for a concerned Member State to handle on its own or which affect two or more Member States or EU institutions with such a wide-ranging and significant impact of technical or political significance that they require timely policy coordination and response at Union political level



### **Blueprint – Core objectives**





# **Blueprint – Cooperation at all levels**

#### **Technical**

- Incident handling during a cybersecurity crisis.
- Monitoring and surveillance of incident including continuous analysis of threats and risk.

#### Operational

- Preparing decision-making at the political level.
- Coordinate the management of the cybersecurity crisis (as appropriate).
- Assess the consequences and impact at EU level and propose possible mitigating actions.

#### **Political / Strategic**

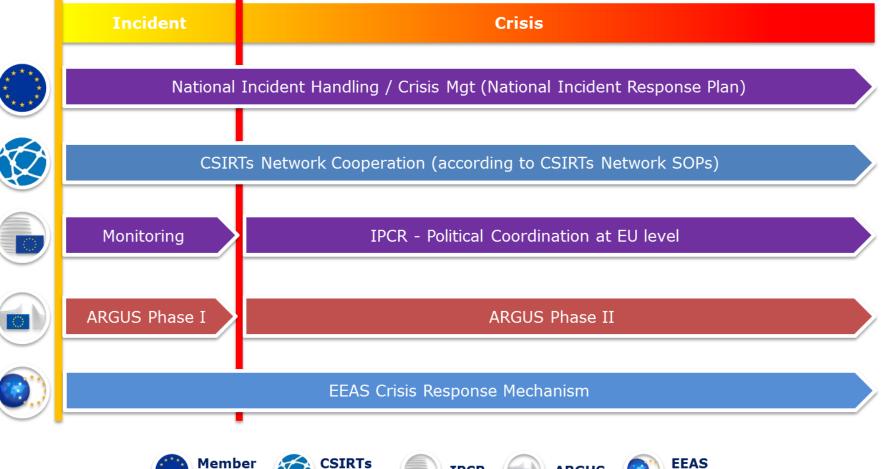
Strategic and political management of both cyber and non-cyber aspects of the crisis including measures under the Framework for a Joint EU Diplomatic Response to Malicious Cyber Activities



## **Blueprint – key mechanisms**

Network

States



**IPCR** 

ARGUS

CRM



# **Commission Recommendation on Cybersecurity of 5G networks**



## **Commission Recommendation on Cybersecurity of 5G networks – 26.03.2019**

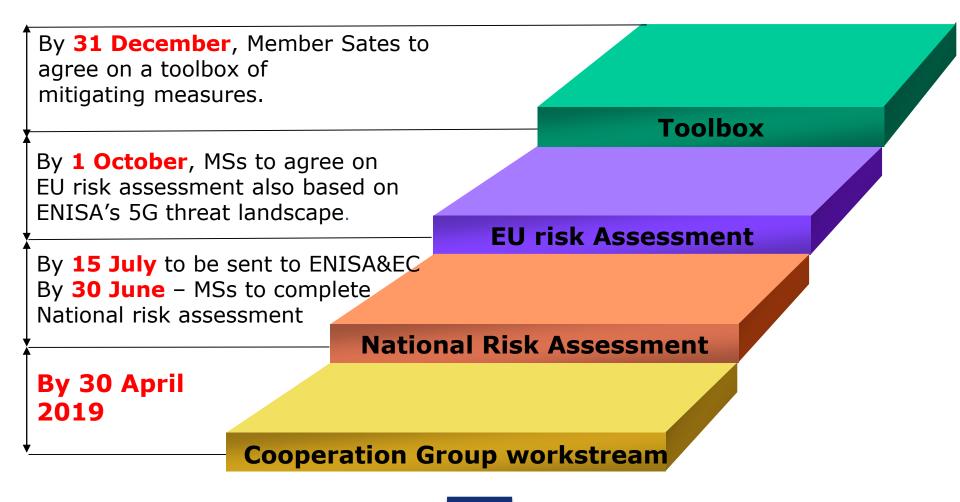
Action at national level

**Action at Union level** 

A Union approach to ensure cybersecurity of 5G networks

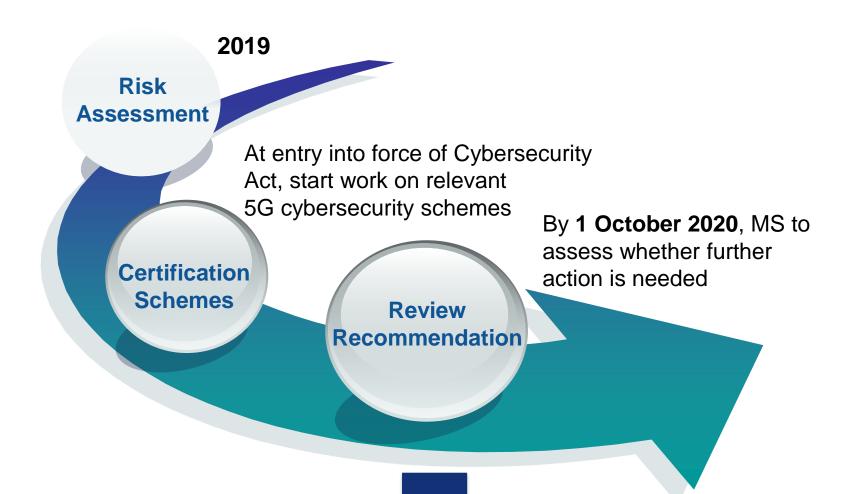


### **Actions – short term**





# **Next steps – medium/longer term**





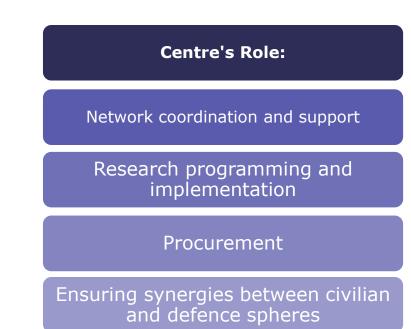
# A cybersecurity competence network with a European Cybersecurity Research and Competence Centre

**Reinforcing EU's cybersecurity technologic capabilities and skills** 



### European Cybersecurity Industrial Technology and Research Competence Centre







#### EU pilots to prepare the European Cybersecurity Competence Network

More than €63.5 million invested in 4 projects



## More than 160 partners from 26 EU Member States

#### More info at:

https://ec.europa.eu/digital-single-market/en/news/four-eu-pilot-projects-launched-prepare-europeancybersecurity-competence-network



# **MeliCERTes**

### Information sharing platform for the Computer Security Incident Response Teams (CSIRTs)



# MeliCERTes Call for tenders



EUROPEAN COMMISSION Directorate-General for Communications Networks, Context and Technology

Digital Society, Trust and Cybersecurity Cybersecurity Technology and Capacity Building

# Further call info:

https://etendering.ted.europa. eu/cft/cftdisplay.html?cftId=4340

#### CALL FOR TENDERS

SMART 2018/1024

Connecting Europe Facility – Cybersecurity Digital Service Infrastructure

Maintenance and Evolution of Core Service Platform Cooperation Mechanism for CSIRTs –MeliCERTes Facility

#### TENDER SPECIFICATIONS

**Open Procedure** 



### Thank you for your attention!

