

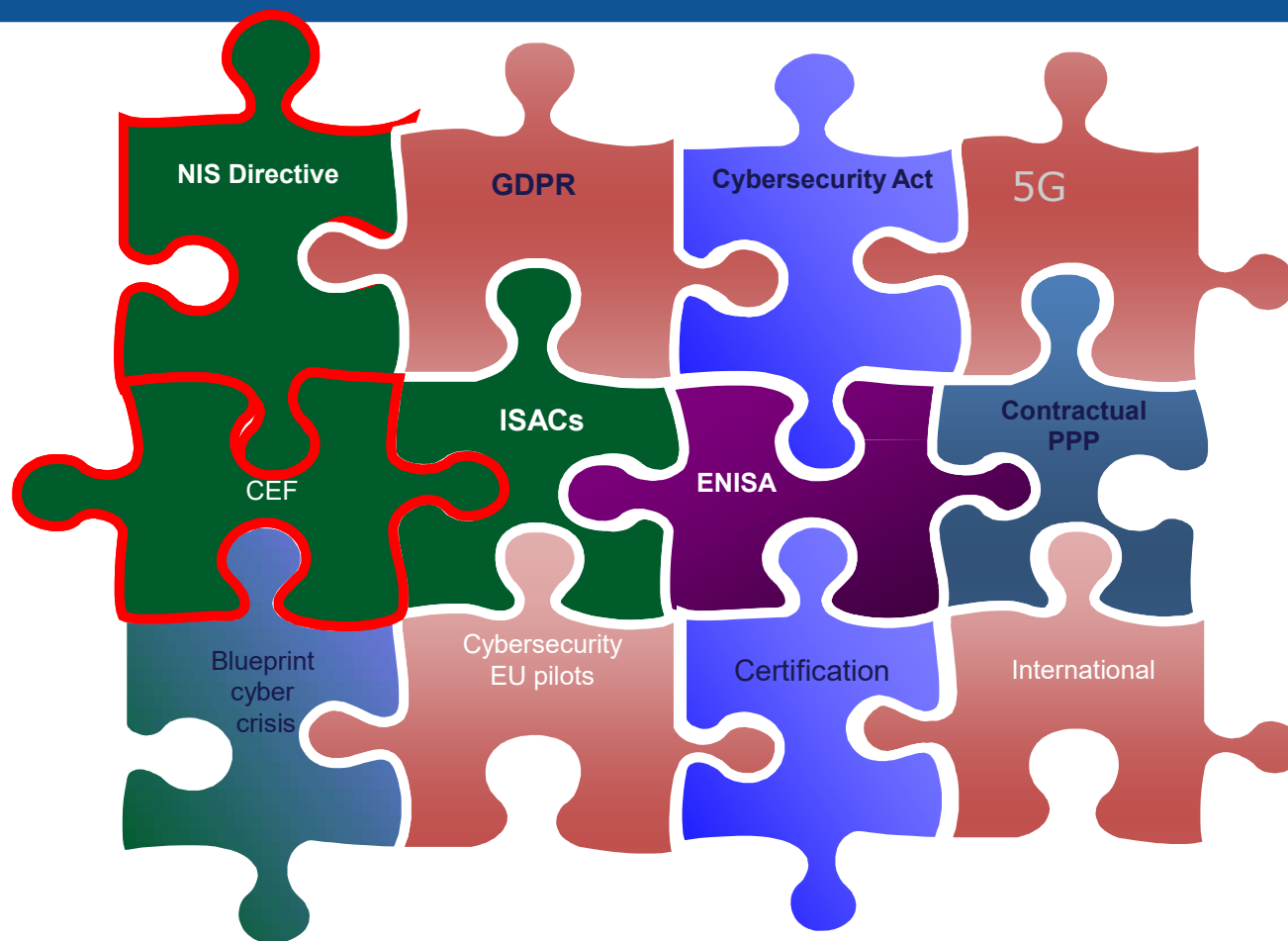


EU Cybersecurity European policy overview

e-IRG
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Brussels

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Seconded for the Finnish Presidency from the Directorate General Communications
Networks, Content and Technology (CONNECT) of EUROPEAN COMMISSION

EU in action about cybersecurity





Continuous policy response to the evolving threat landscape:

- **2013** EU Cybersecurity Strategy: 'An Open, Safe and Secure Cyberspace'
- **2016** Communication on Strengthening Europe's Cyber Resilience System and Fostering a Competitive and Innovative Cybersecurity Industry
- **2017** Cybersecurity package
- **2018** Proposal for the European competence centre and network
- **2019** Cybersecurity Act entered into force

Building EU Resilience to cyber attacks

Capacity Building

Enhanced national capabilities & Risk management requirements

Financial Support from the EU

Industrial capabilities

Prevention & Response Coordination

ENISA operational support & Cooperation between national CSIRTs

Coordinated response to large-scale cybersecurity incidents and crises & exercises

Single Market for certified ICT products and services

Cybersecurity Act:

<https://ec.europa.eu/digital-single-market/en/eu-cybersecurity-act>



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



COOPERATION

Increased EU-level cooperation

EU MEMBER STATES
COOPERATION GROUP
(STRATEGIC)

EMERGENCY TEAMS
(CSIRTS) NETWORK
(OPERATIONAL)



EU MEMBER STATES; EUROPEAN COMMISSION;
EUROPEAN UNION AGENCY FOR NETWORK AND
INFORMATION SECURITY



EU MEMBER STATES; CERT-EU; EUROPEAN
UNION AGENCY FOR NETWORK AND
INFORMATION SECURITY



RISK MANAGEMENT

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

SECURITY MEASURES

NOTIFICATION OF
MAJOR INCIDENTS



NIS implementation one year later

Full transposition

- 5 Member States did not submit information about Operators of Essential Service identified

Cooperation Group

- 11 Work Streams (15 Work Programme tasks)
- 12 Plenary meetings
- 10 Reference documents delivered (on the implementation of the Directive as well as wider cybersecurity issues)
- 2 table-top exercise. One already performed (on EU elections) and one which took place in July (blueprint operational layer).

CSIRTs Network

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

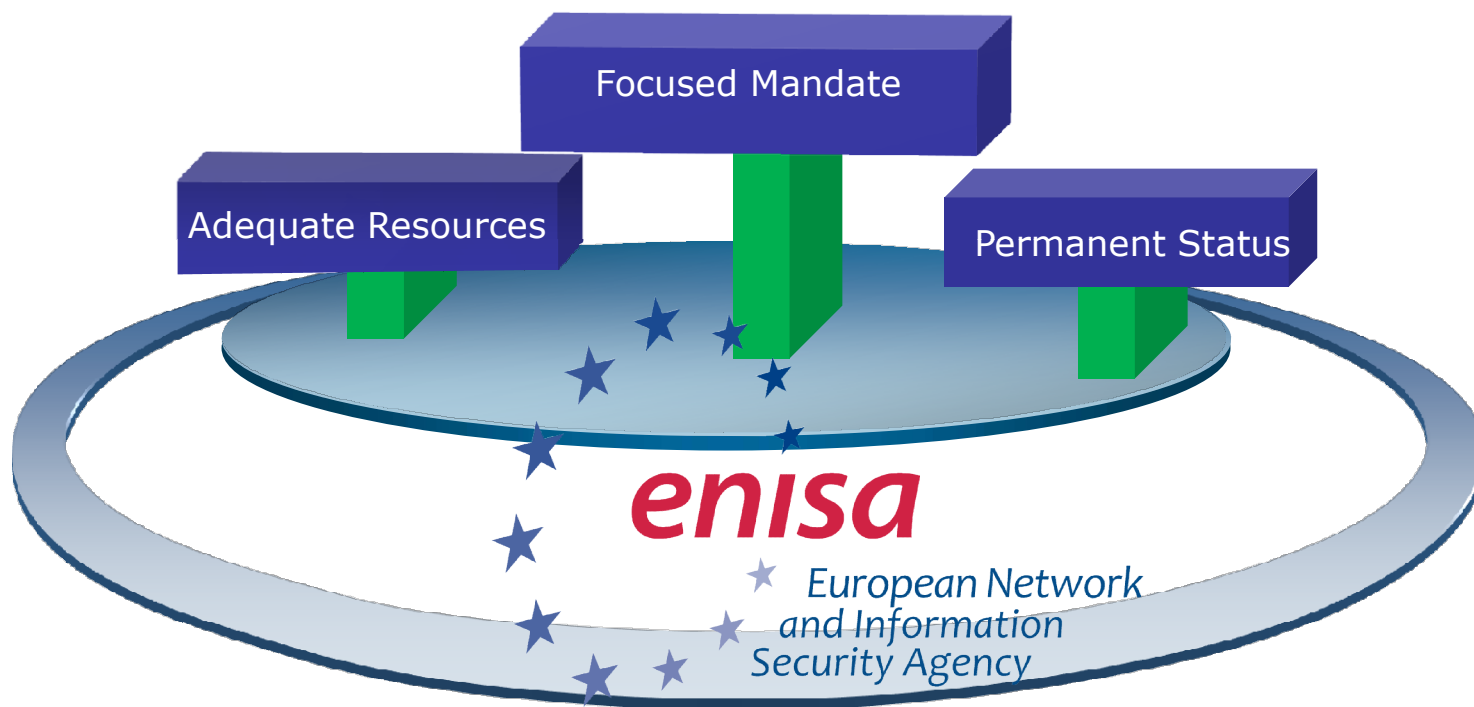


EU Cybersecurity Act

**Towards a reformed
EU Cybersecurity Agency**

**and reinforcing the cybersecurity
single market in the EU**

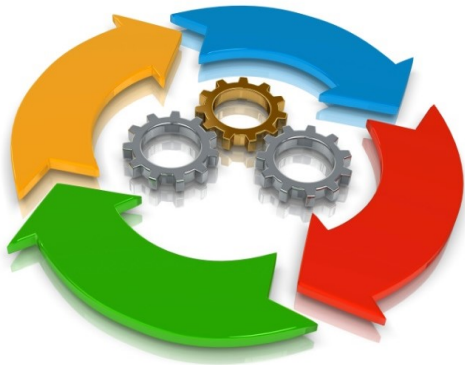
What's new with the new proposal?





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****



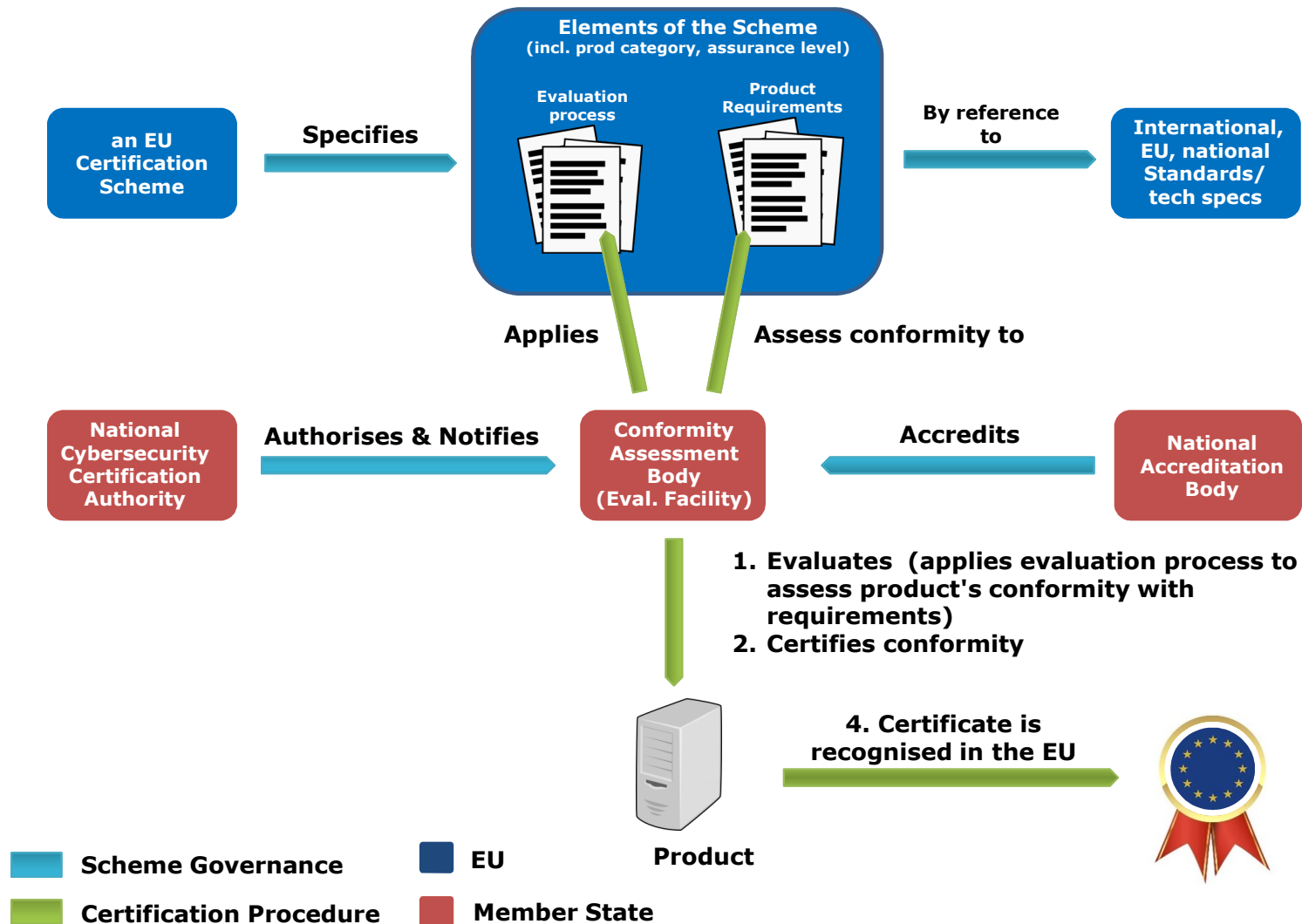


The EU Cybersecurity Certification Framework

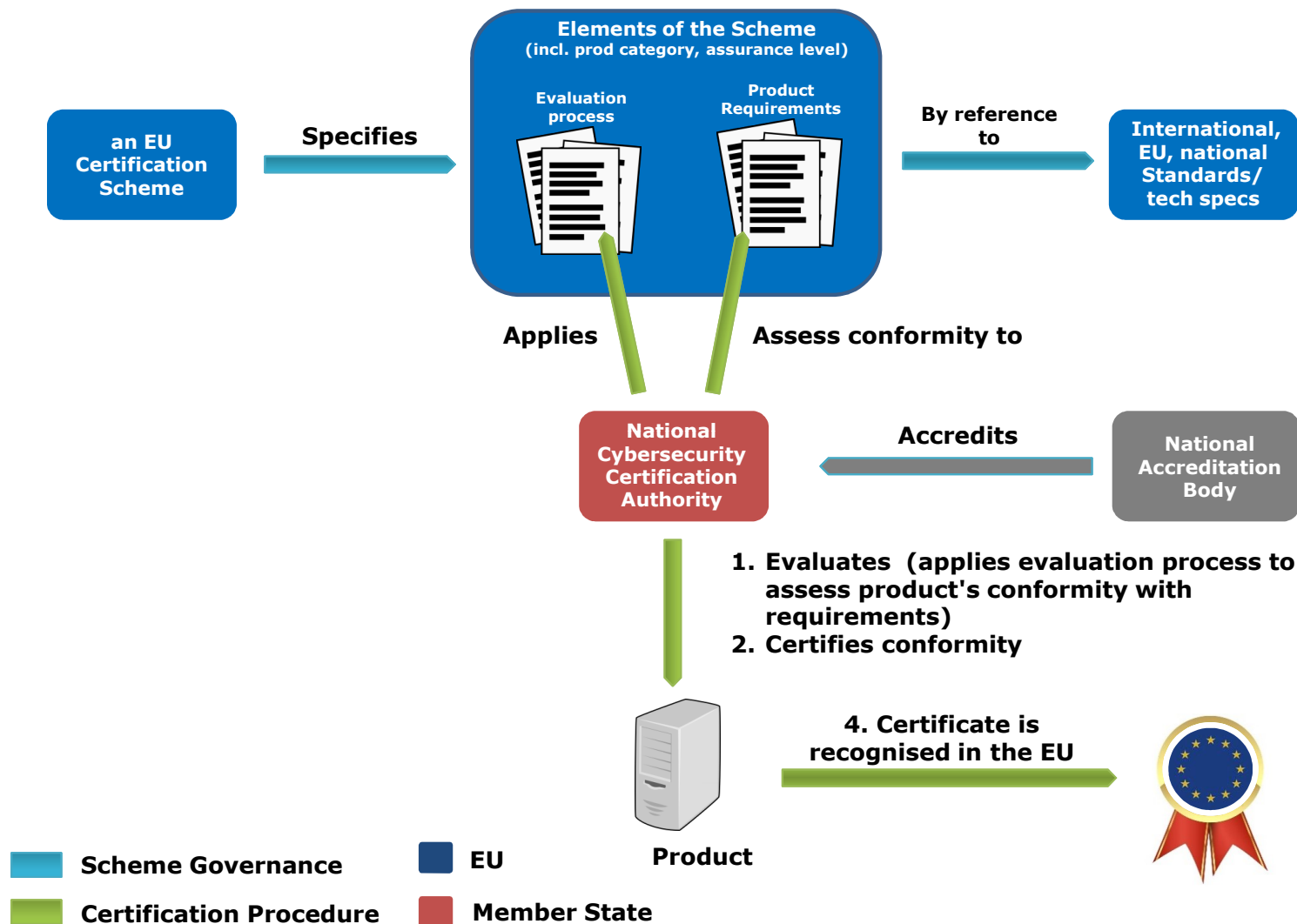
Cybersecurity Certification Schemes

- 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;

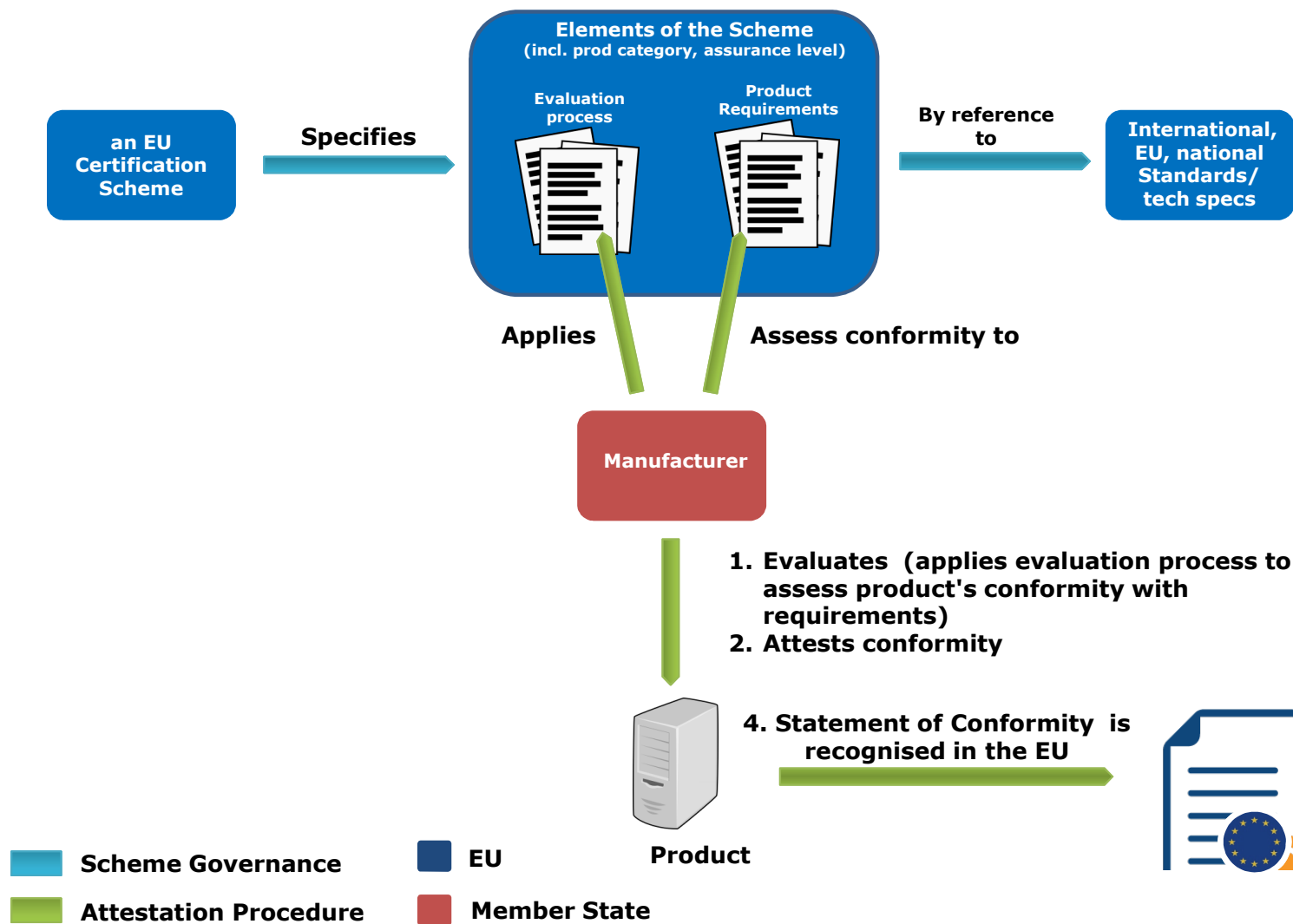
European Cybersecurity Certification Scheme (Basic, Substantial)



European Cybersecurity Certification Scheme (High)



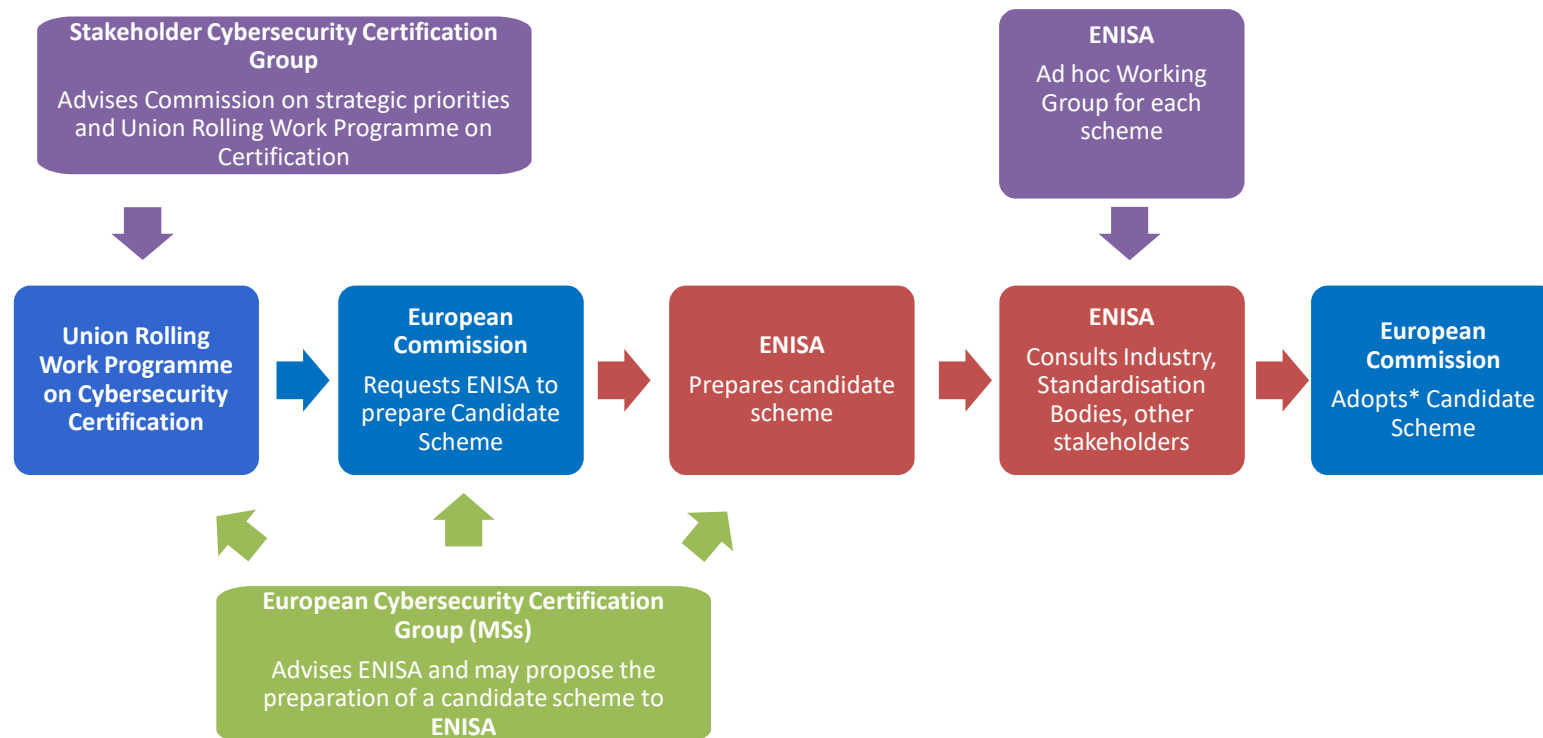
Conformity self-assessment (AL Basic only)





The EU Cybersecurity Certification Framework

The lifecycle of a European Cybersecurity Certification Scheme





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



Shared
Situational
Awareness

Effective
Response

Common
Message



Blueprint – Cooperation at all levels

Technical

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

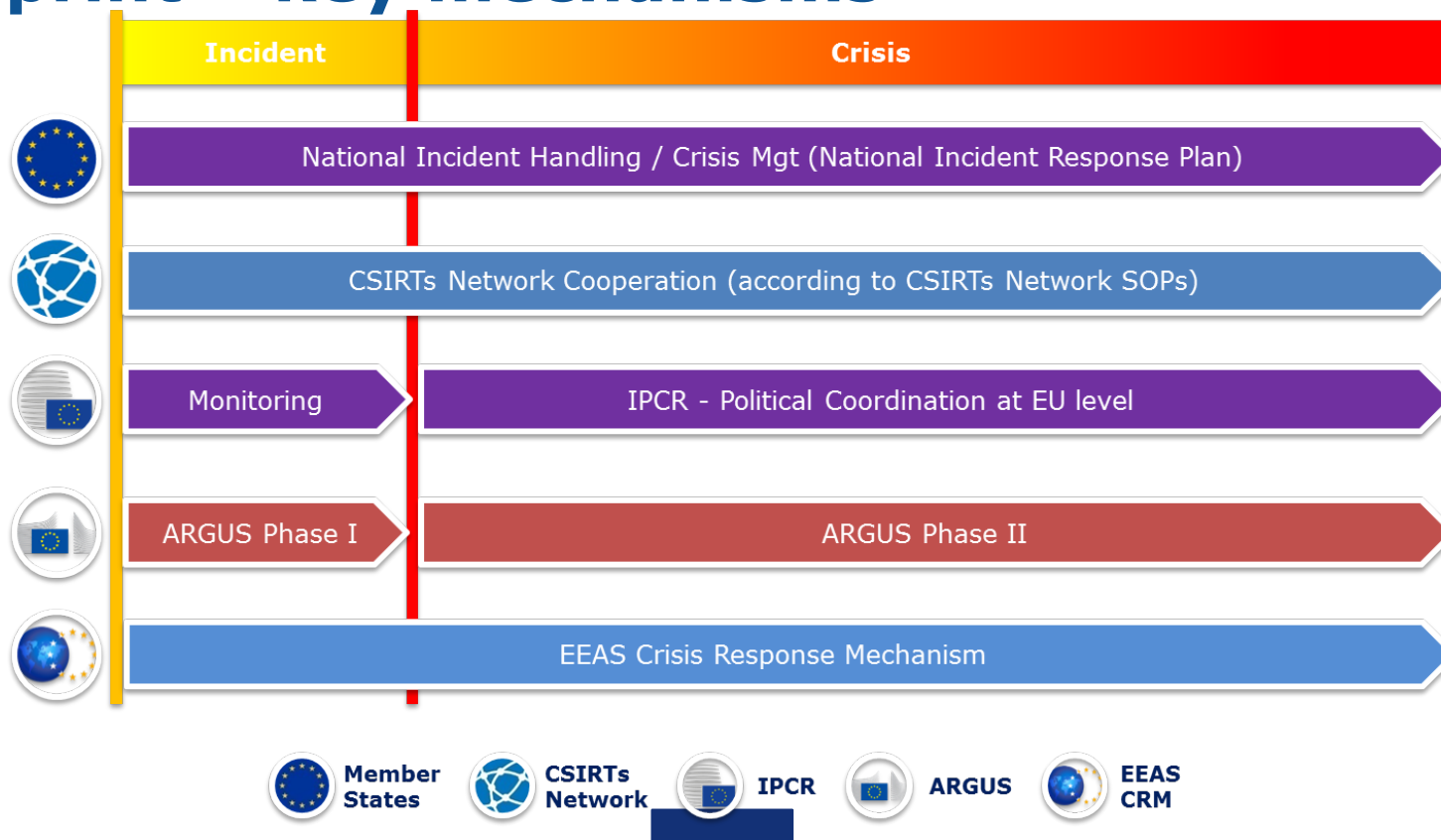
Operational

- 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

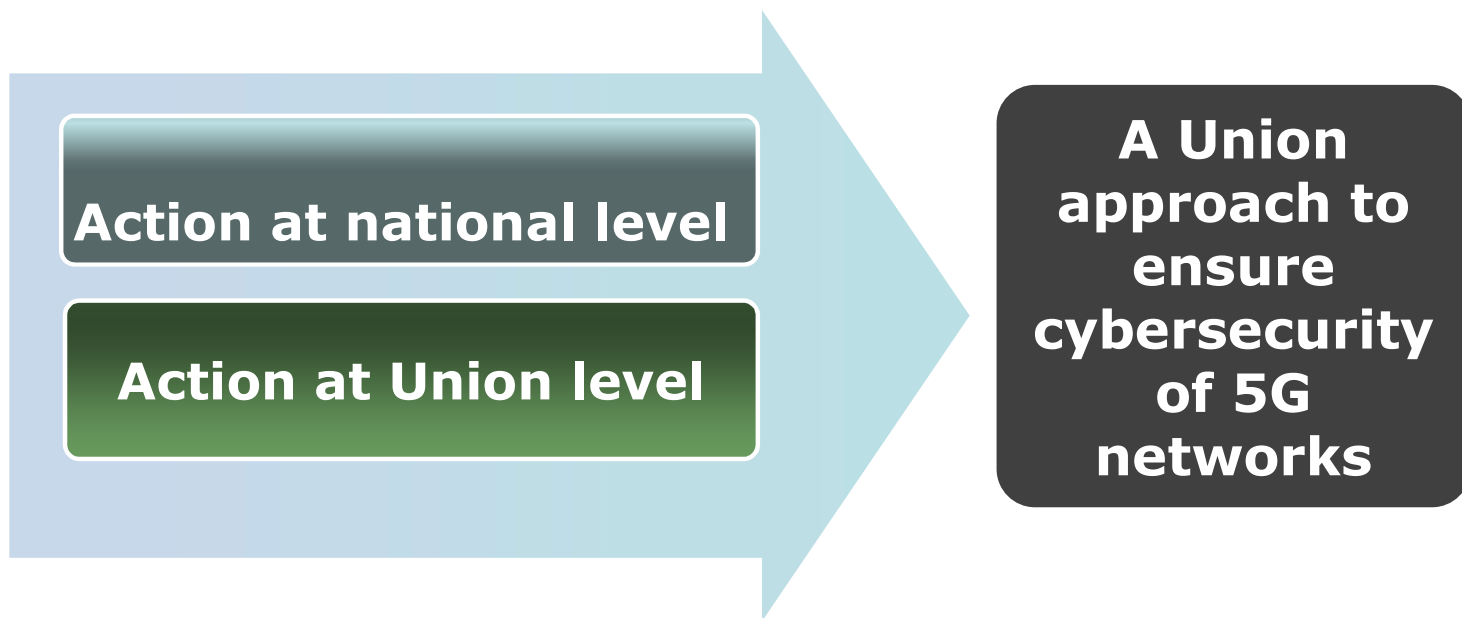




Commission Recommendation on Cybersecurity of 5G networks

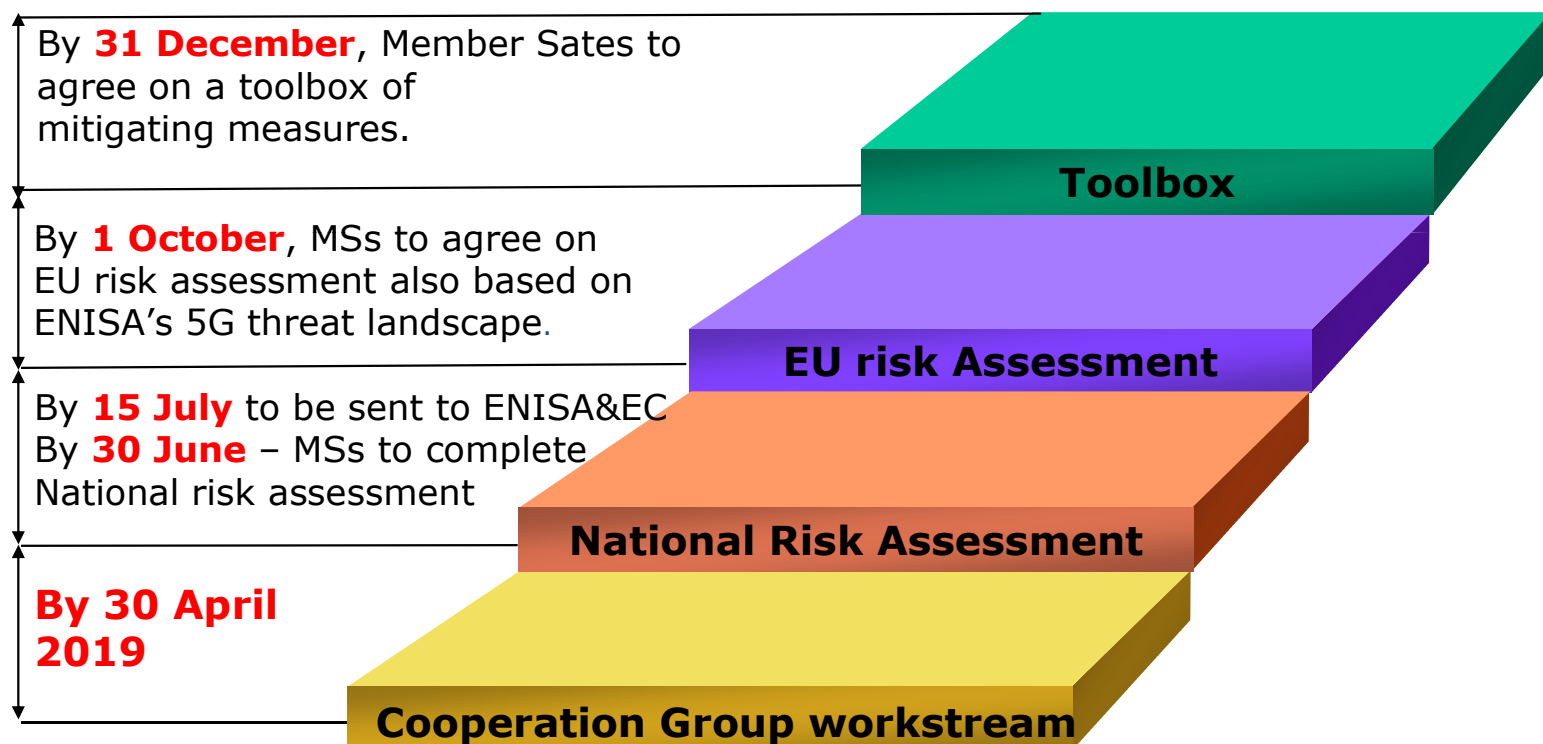


Commission Recommendation on Cybersecurity of 5G networks – 26.03.2019

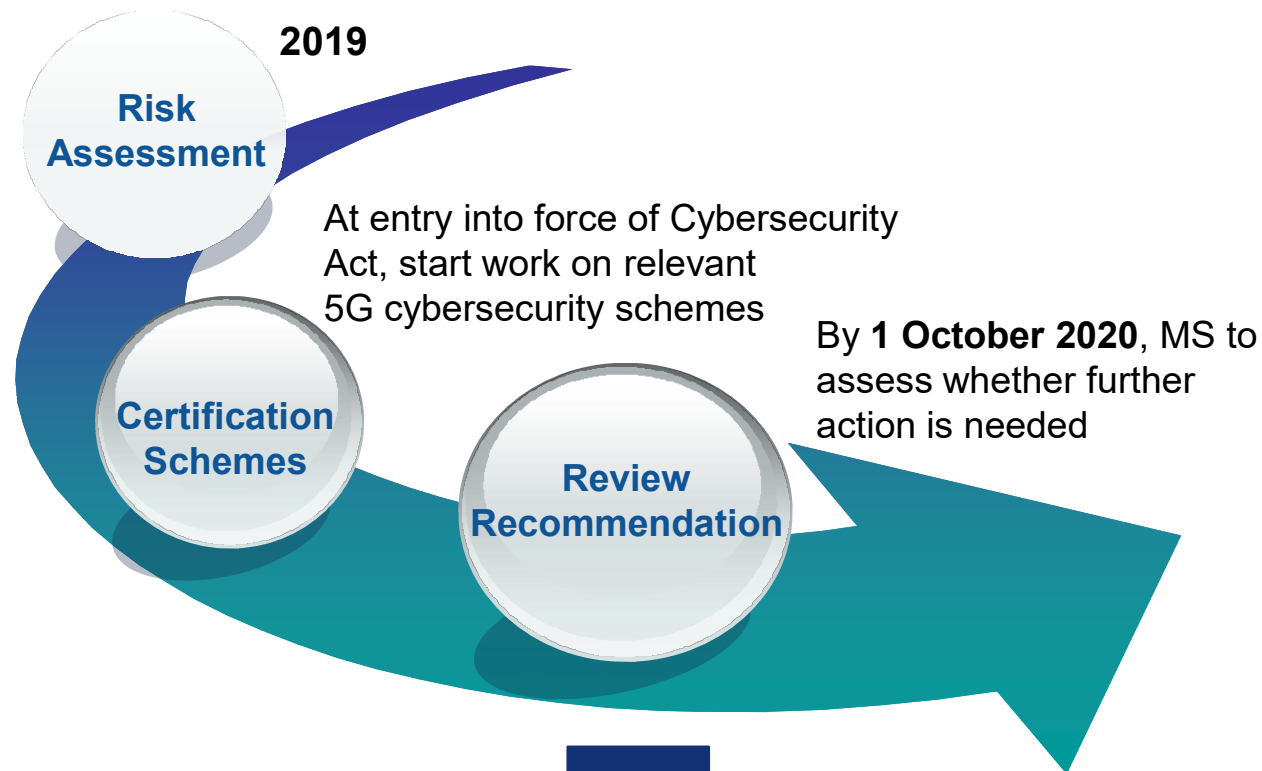




Actions – short term



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



Centre's Role:

Network coordination and support

Research programming and implementation

Procurement

Ensuring synergies between civilian and defence spheres



EU pilots to prepare the European Cybersecurity Competence Network

More than **€63.5 million** invested in **4 projects**

 <i>Cyber security cOmpeteNce fOr Research and InnoVAtion</i>	 Cyber Security for Europe	 ECHO	 SPARTA
 Partners: 46	 Partners: 43	 Partners: 30	 Partners: 44
 EU Member States involved: 14	 EU Member States involved: 20	 EU Member States involved: 15	 EU Member States involved: 14
Key words SME & startup ecosystem Ecosystem for education Socio-economic aspects of security Virtual labs and services Threat Intelligence for Europe DDoS Clearing House for Europe AI for cybersecurity Post-Quantum cryptography	Key words Cybersecurity for citizens Application cases Research Governance Cyber Range Cybersecurity certification Training in security	Key words Network of Cybersecurity centres Cyber Range Cybersecurity demonstration cases Cyber-skills Framework Cybersecurity certification Cybersecurity early warning	Key words Research Governance Cybersecurity skills Cybersecurity certification Community engagement International cooperation Strategic Autonomy

Last updated 26 February 2019

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-european-cybersecurity-competence-network>



Thank you for your attention!

