

Cybersecurity: A strategic priority for the EU



Building EU resilience to cyber attacks

1. Capacity Building

Enhanced national capabilities & Risk management requirements

Financial support from the EU

Industrial capabilities

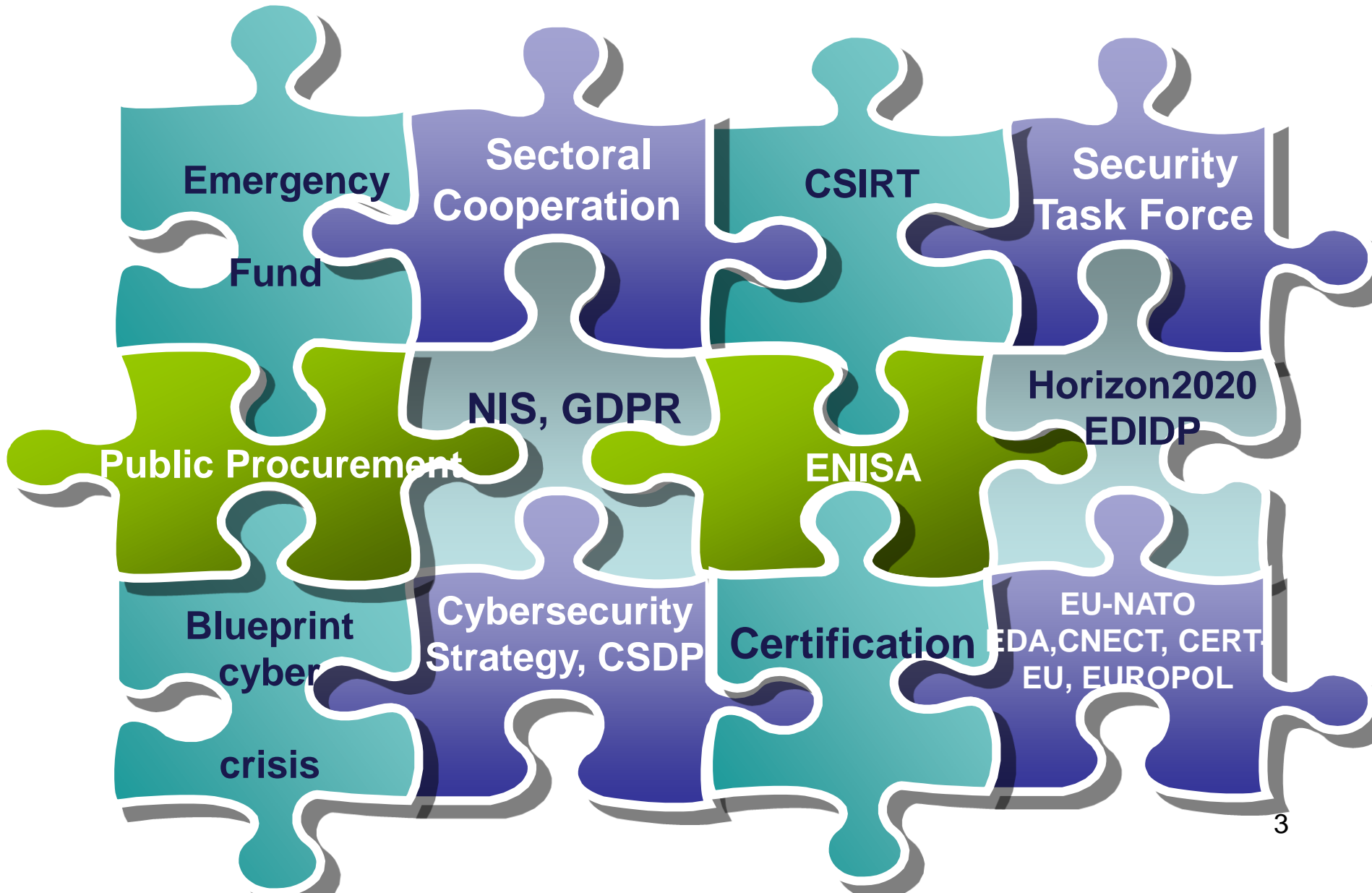
2. Prevention & Response Coordination

ENISA operational support & CSIRTs Cooperation

Coordinated response to large-scale cybersecurity incidents & crises

Single Market for certified ICT products & services

E.U. in Action



E.U. Initiatives



- ✓ cPPP-**EC SO** (2016)
- ✓ Digital European **Industry** Initiative (2016)
- ✓ Electronic Components and Systems (**ECSEL JU**)
- ✓ Supercomputers (**EuroHPC JU**)
- ✓ **5G** Action Plan (2016)
- ✓ Framework for screening foreign investment
- ✓ Strategic Forum for Important Projects of common European Interest (**IPCEI**)
- ✓ Digital Skills and Jobs Coalition
- ✓ Space Programme (2018)
- ✓ **AI** Declaration/ AI Communication (2018)
- ✓ Communication on **online disinformation** (April 2018)

Open Calls in SC7 – Digital Security

Topics 2019:

- **SU-DS03-2019-2020: Digital security and privacy for citizens and Small and Medium Enterprises and Micro Enterprises (IA, Budget: 18 MEUR)**
- **SU-DS05-2018-2019: Digital security, privacy, data protection and accountability in critical sectors (subtopic a) Transport, IA, budget: 10 MEUR; subtopic b) Healthcare, RIA, budget: 10 MEUR)**

Opening: 14 Mar 2019

Call deadline: 22 Aug 2019

Cybersecurity Call in LEIT-ICT - SU-ICT-02-2020: Building blocks for resilience in evolving ICT systems

Subtopics:

- (a) Cybersecurity/privacy audit, certification and standardization;**
- (b) Trusted supply chains of ICT systems;**
- (c) Designing and developing privacy-friendly and secure software and hardware;**

Type of Action: RIA

Budget: 47.00 MEUR

Opening: 25/07/2019;

Deadline: 19/11/2019

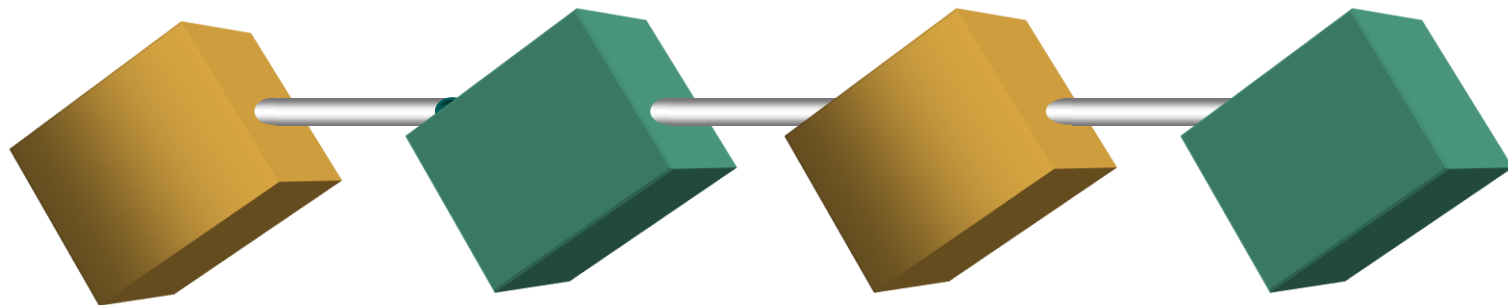
LEIT-ICT - Other topics relevant for Cybersecurity & Digital Privacy

- **ICT-08-2019: Security and resilience for collaborative manufacturing environments**
- **ICT-13-2018-2019: Supporting the emergence of data markets and the data economy**
- **ICT-20-2019-2020: 5G Long Term Evolution**
- **...and more, as this is a cross-cutting issue**

The future



Challenge I: Better and more EU Cybersecurity technologies



- ✓ Privacy
- ✓ Security
- ✓ Accountability

by design

- ✓ Robust
- ✓ Dynamic
- ✓ Resilient
- ✓ Autonomous

(independent of
non EU
components)

- ✓ Ethical,
- ✓ non bias

- ✓ human
centric
- ✓ democratic

- Self-healing
- ✓ healing
- ✓ management
- ✓ recovery

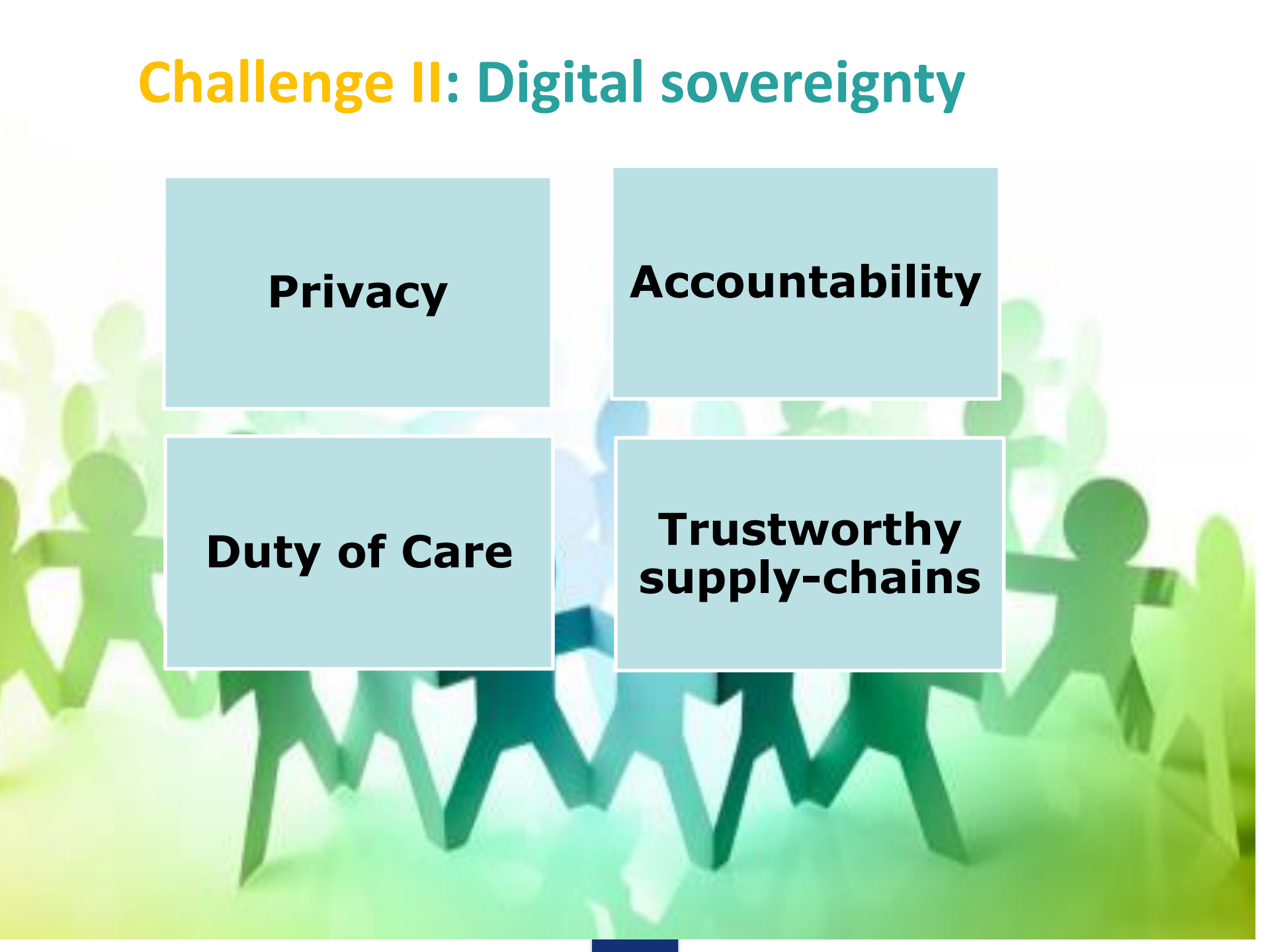
Challenge II: Digital sovereignty

Privacy

Accountability

Duty of Care

**Trustworthy
supply-chains**



Challenge III: Cybersecurity knowledge, skills & values

- ✓ **Close the gap** between cybersecurity education and EU industrial, business, operational, legislative and ethical requirements;
- ✓ **Upgrade** cybersecurity training by easily accessing and using new technologies (e.g. AI simulation platforms, HPCs, Cloud resources, Big Data);
- ✓ **Align** academic & certification programmes;
- ✓ Adopt a **multidisciplinary approach** to cybersecurity training;
- ✓ **Utilise all expertise** (military, industrial, law enforcement, financial, governmental);
- ✓ **Match** cybersecurity skills and workforce-Prepare people!



Multiannual Financial Framework 2021-2027

‘A modern budget for a Union that protects, empowers and defends’



More funding for priority areas



A new mechanism to protect the EU budget from financial risks linked to the rule of law



A strong focus on European added value and on performance



Less red tape for beneficiaries



A more flexible and agile budget with a clearer and leaner architecture

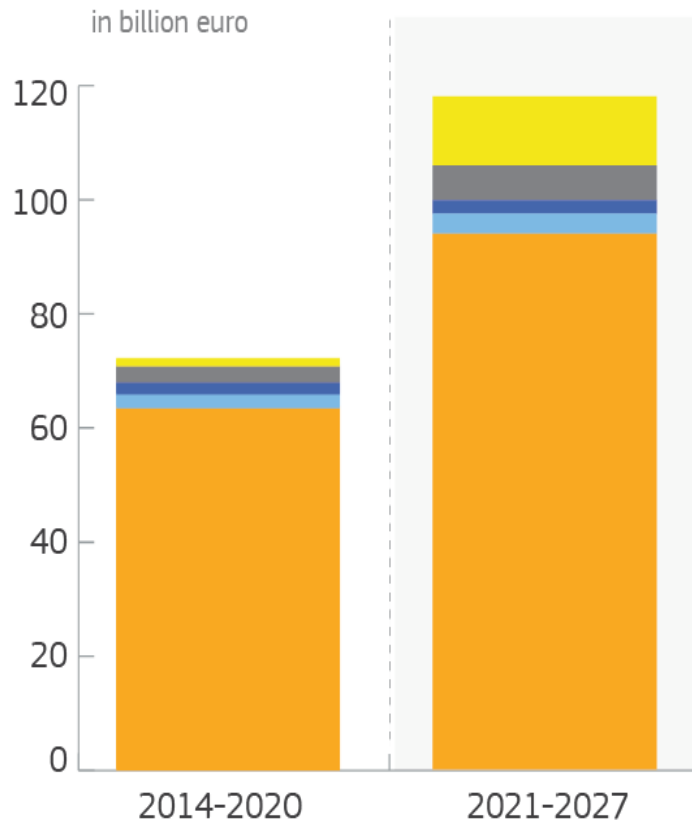
Digital in MFF 2021-2027

Objective: *ensure that Europe drives the digital transformation of society and economy, bringing benefits to all citizens and businesses*



Research, Innovation & Digital

Investing in the future



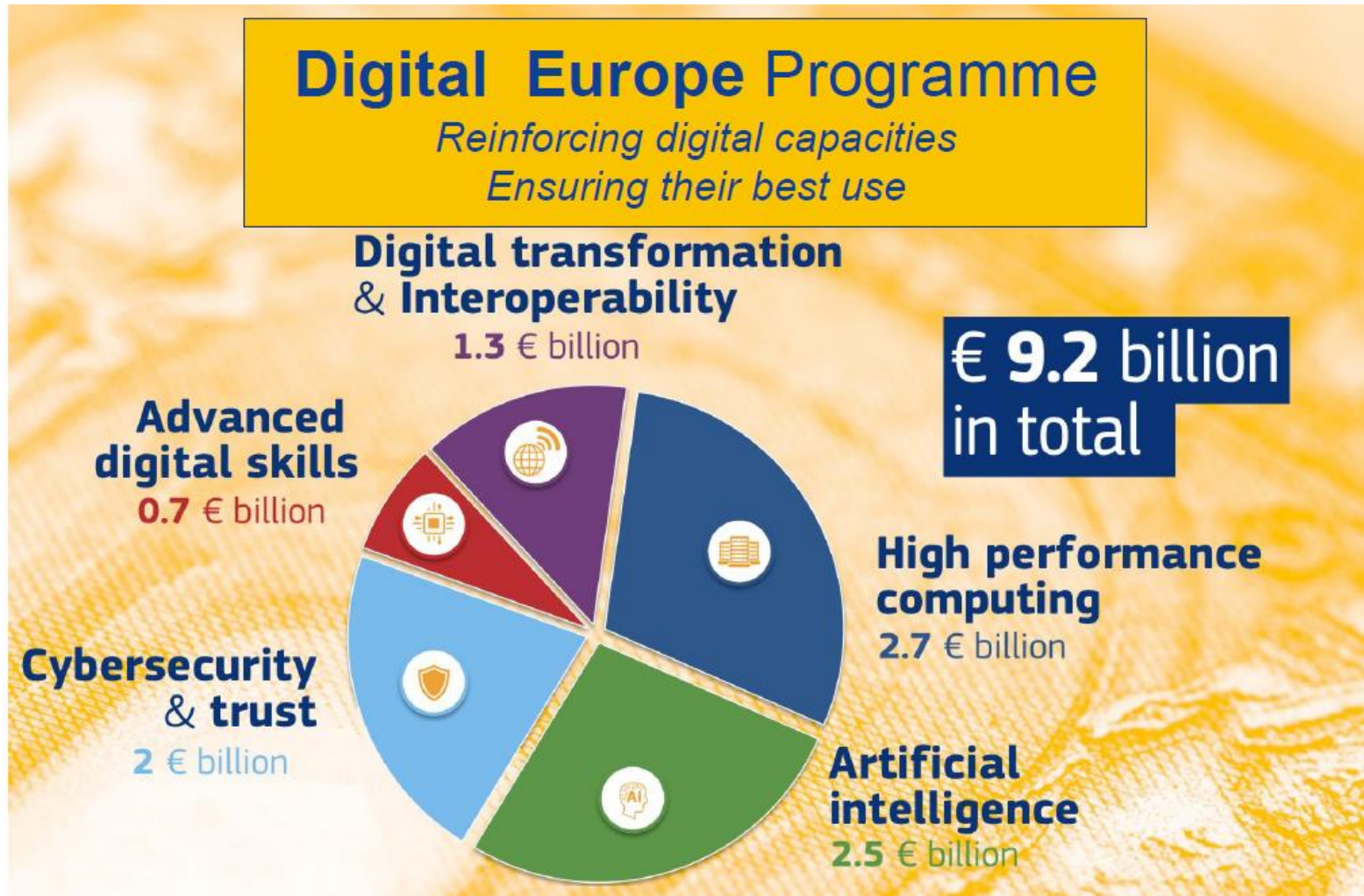
European Commission proposes to **increase investment in research-innovation and digital** by allocating **€118.3 billion** for the future MFF.

- Digital Europe Programme & Connecting Europe Facility - Digital
- International Thermonuclear Experimental Reactor (ITER)
- Euratom Research and Training Programme
- Innovation Window InvestEU Fund
- Horizon Europe

Source: European Commission

Note: Compared to the Multiannual Financial Framework 2014-2020 at EU-27 (estimate)

The Digital Europe Programme 2021-2027





The Cybersecurity Competence Centre and Network (CCCEN)

*Brussels, **12.9.2018** COM(2018) 630 final*

*2018/0328 (COD) REGULATION OF THE EUROPEAN
PARLIAMENT AND OF THE COUNCIL **establishing
the European Cybersecurity Industrial,
Technology and Research Competence Centre
and the Network of National Coordination
Centres***

Proposed EU cybersecurity funding sources



**Digital Europe
Programme
€ 2bn**

Horizon Europe
*€ To be specified before
adoption by co-legislators*



**Co-investment
by industry on
project basis**



**At least 50%
co-investment
(in-kind and financial)
by participating
Member States**



Cybersecurity Competence Centre



**Network of National
Coordination Centres**



**Capacity building
projects**



**Collaborative R+D
projects**



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

CONCORDIA
Cyber security cOmpeteNce fOr Research anD InnovAtion

 Partners: **46**

 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

 Cyber Security for Europe

 Partners: **43**

 EU Member States involved: **20**

Key words

Cybersecurity for citizens
Application cases
Research Governance
Cyber Range
Cybersecurity certification
Training in security

ECH 

 Partners: **30**

 EU Member States involved: **15**

Key words

Network of Cybersecurity centres
Cyber Range
Cybersecurity demonstration cases
Cyber-skills Framework
Cybersecurity certification
Cybersecurity early warning

 **SPARTA**

 Partners: **44**

 EU Member States involved: **14**

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>

Outcomes of this consultation event

Propose specific challenges (short/mid and long term) in the areas of:

- *Cyber-ranges*
- *Threat intelligence*
- *Certification*
- *Cybersecurity skills*

that can be addressed by DEP and by HorizonEurope

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<http://europa.eu/!yT68Jg>

Thank you for your attention!

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Trust in a Digital Society

