



EU Cybersecurity Strategy and Capacity-building

24 June 2021

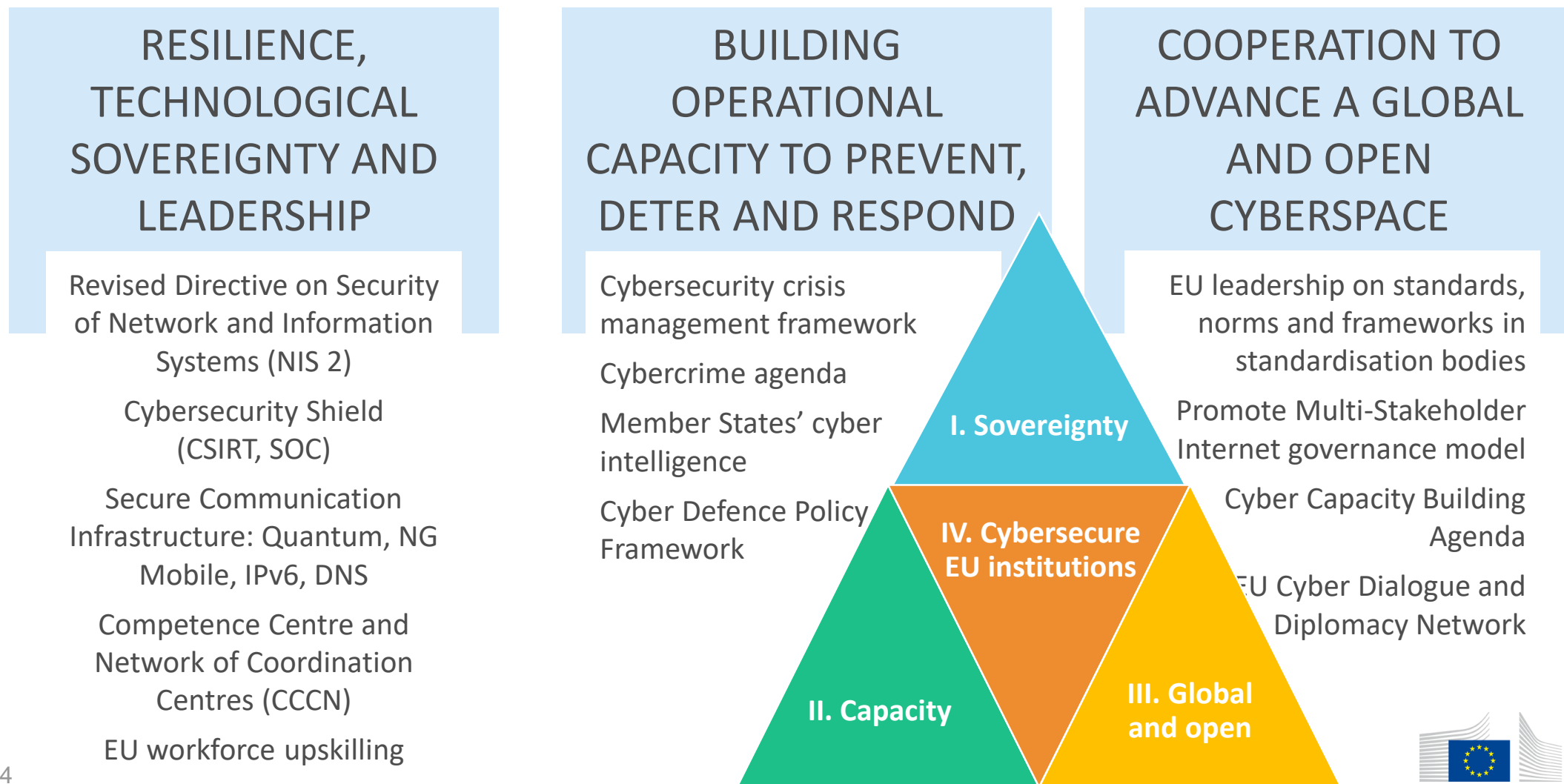
Martin Übelhör

Challenges in Cybersecurity

- Geopolitical contest over cyberspace
- Large increase in cybercrime
- Supply chain security (e.g. 5G)
- Expanding attack surface (e.g. IoT; hospitals, vaccine distribution)
- Threat from quantum computing breaking “legacy” crypto
- Advent of AI
- Skills shortage; awareness
- Capacity building, resilience
- Vulnerability of smaller organisations, SMEs
- Info sharing, joint analysis and response
- Commercialisation of R&D
- Uptake
- Single market
- Dual use
- (...)

THE EU'S CYBERSECURITY STRATEGY FOR THE DIGITAL DECADE

The EU's Cybersecurity Strategy for the Digital Decade (16.12.2020); 3 instruments (regulatory, investment, policy initiatives) 3 to three pillars



A European Cybersecurity Technology & Innovation Ecosystem

EU Funding, Capacity-building, Community-
building

The EU represents 26% of the global cybersecurity market

*More than 660 expertise centres
registered in the mapping of
cybersecurity centres of expertise*



CYBERSECURITY PRODUCTS AND SOLUTIONS

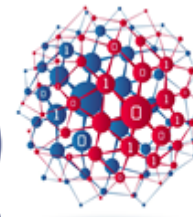
**Up to 30% of the European demand is
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**Europe is the location for the corporate
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ECS
EUROPEAN CYBER SECURITY ORGANISATION



ECSO has +/- 250 members



EU Cybersecurity Competence Centre and Network



European Competence Centre:

- manage the funds foreseen for cybersecurity under Digital Europe and Horizon Europe 2021-2027
- facilitate and help coordinate the Network and Community to drive the cybersecurity technology agenda
- support joint investment by the EU, Member States and industry and support deployment of products and solutions.

Network of National Coordination Centres:

- Nominated by Member States as the national contact point
- Objective: national capacity building and link with existing initiatives
- National Coordination Centres may receive funding
- National Coordination Centres may pass on financial support

Competence Community:

- A large, open, and diverse group of cybersecurity stakeholders from research and the private and public sectors, including both civilian and defence sectors

Stakeholders



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



 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



 Partners: **43**

 EU Member States involved: **20**

Key words

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



 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



 Partners: **44**

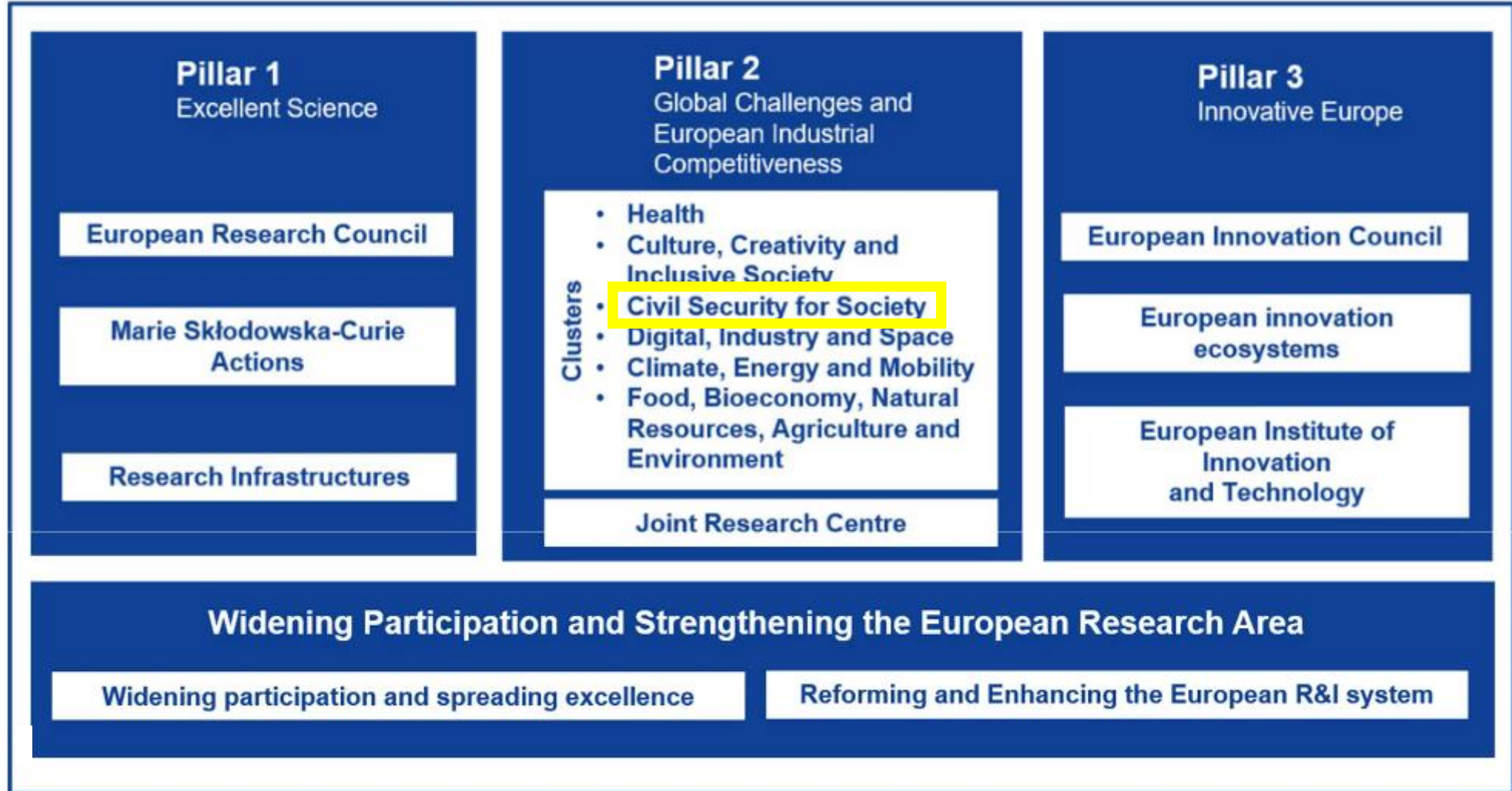
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Key words

Research Governance
Cybersecurity skills
Cybersecurity certification
Community engagement
International cooperation
Strategic Autonomy

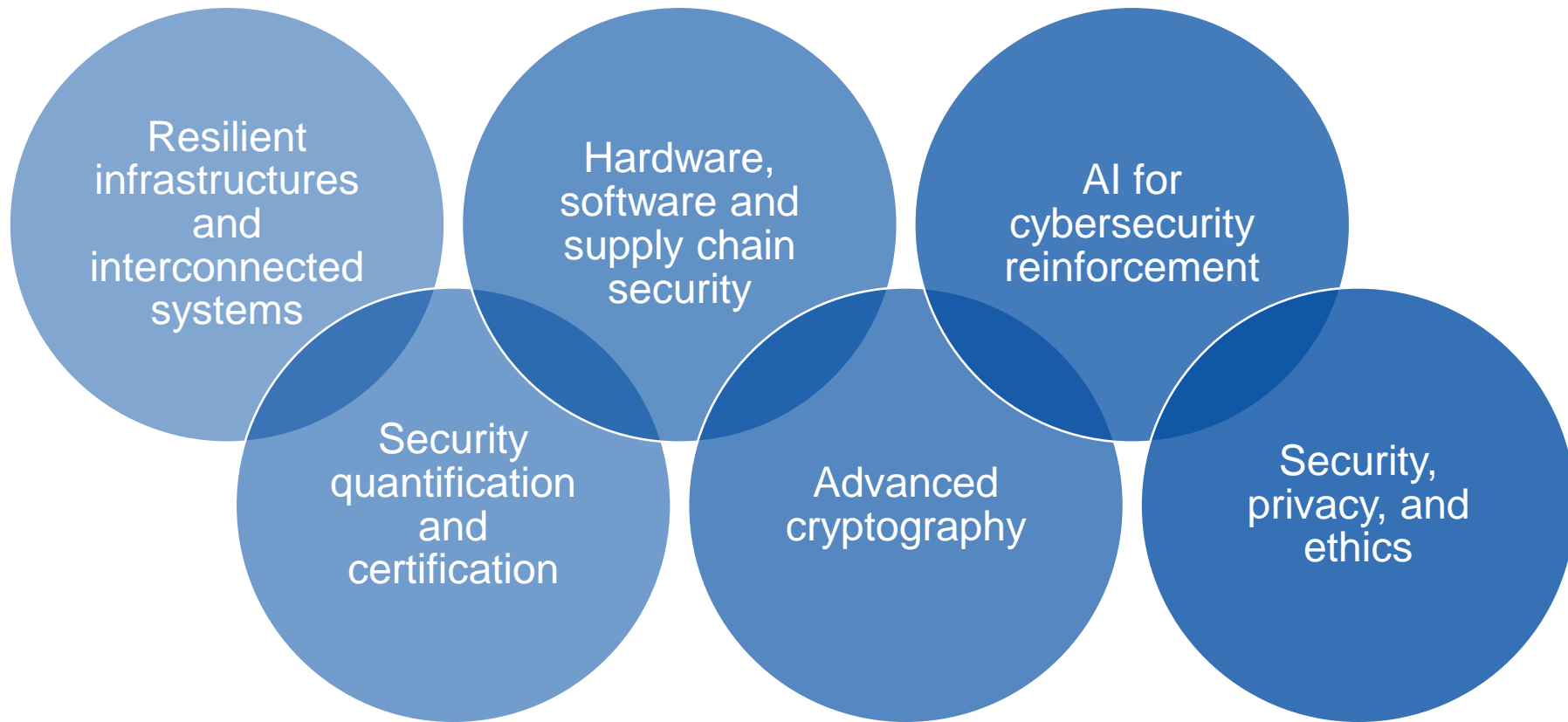


Horizon Europe - Structure

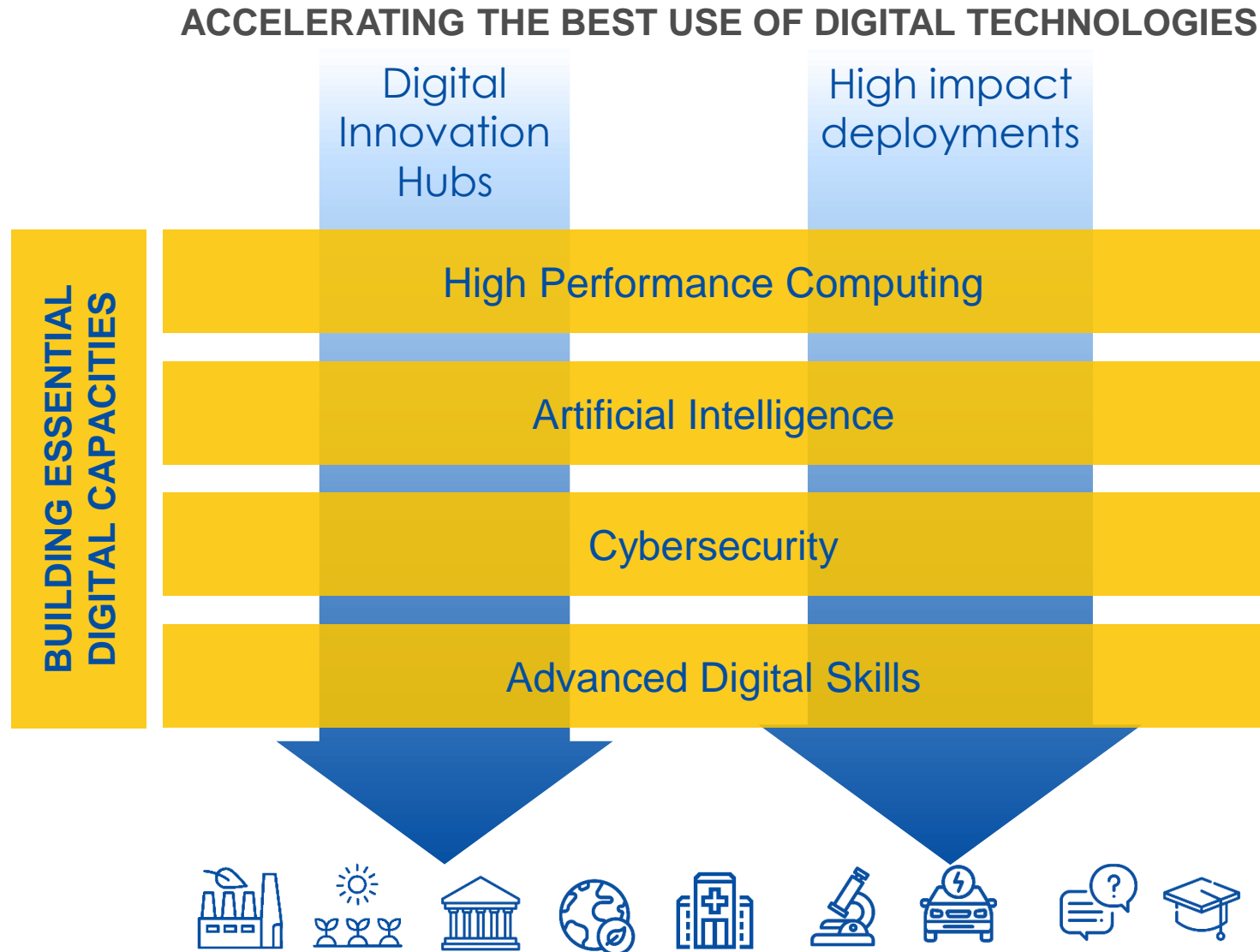


HORIZON EUROPE (2021-2027)

Initial cybersecurity funding priorities



Digital Europe programme structure



DIGITAL EUROPE (2021 – 2027)

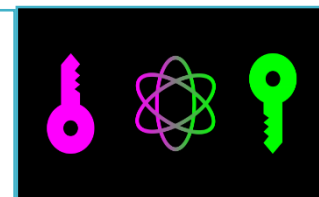
Initial funding priorities



Support to the network of National Coordination Centres

Key capacity building

- Quantum-secured public communication infrastructure (terrestrial segment) with the aim at deploying Quantum Key Distribution (QKD) in various large-scale networks;
- European cyber threat information network (cyber ranges);



Certification scheme(s)

- Support certification capacities
- Support SMEs to certify their products
- Provide certification testbeds;

Widening the deployment of cybersecurity tools

- Support for faster validation and market take-up of innovative cyber security solutions by businesses and public buyers;



Supporting the NIS Directive implementation

- Strengthening the activities started under the current CEF Telecom programme (national authorities, CSIRTs, OES, DSP, ...)

Thank you



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