Cyber Security for Europe

CyberSec4Europe

Mark Miller
2 April 2019

Ensuring the competitiveness of Europe
Enabling European economic growth
while protecting European society

CyberSec4Europe is funded by the European Commission under the H2020 Programme

Grant Agreement No. 830929

What is CyberSec4Europe?

- 43 Project partners in 22 countries
- 40 Letters of global support
- 26 ECSO members involved in 6 ECSO Working Groups
- Existing networks (ECSO, TDL, EOS, CEPIS)
- Experience from 100+ cybersecurity projects in 14 key areas
- 11 technology/application elements and coverage of 9 vertical sectors

CyberSec4Europe is:
Centres of Excellence / Universities / Research Centres / SMEs!

Consortium Participants

Cyber Security for Europe

Project Lead

Goethe University Frankfurt (DE)

WP Leaders

TU Delft (NL)

University of Murcia (ES)

FORTH (EL)

NEC Labs Europe (DE)

Trento University (IT)

Masaryk University Brno (CZ)

Cybernetica (EE)

Trust in Digital Life (BE)

Conceptivity (CH)

Associates

Inclusion during the project

Partners

ABI Lab (IT)

AIT (AT)

Archimede Solutions (CH)

ATOS Spain (ES)

Banco Bilbao Argentaria (ES)

University Porto (PT)

CNR (IT)

CTI “Diophantus” Patras (EL)

DAWEX (FR)

Denmark Technical University (DK)

Engineering Spa (IT)

Comune di Genova (IT)

Banque Populaire (FR)

International Cyber Investigation Training Academy (BG)

Intesa Sanpaolo (IT)

JAMK University of Applied Sciences (FI)

Karlstad University (SE)

KU Leuven (BE)

Norwegian University of Science and Technology (NO)

Open & Agile Smart Cities (BE)

Politecnico de Torino (IT)

Siemens AG (DE)

SINTEF (NO)

Time.Lex (BE)

University College Dublin (LERO) (IE)

University of Cyprus (CY)

University of Maribor (SI)

University of Malaga (ES)

University of Luxembourg (LU)

University of Piraeus (EL)

Université Paul Sabatier Toulouse (UPS-IRIT) (FR)

VaF (SK)

VTT (FI)

Our Vision

A European Union that

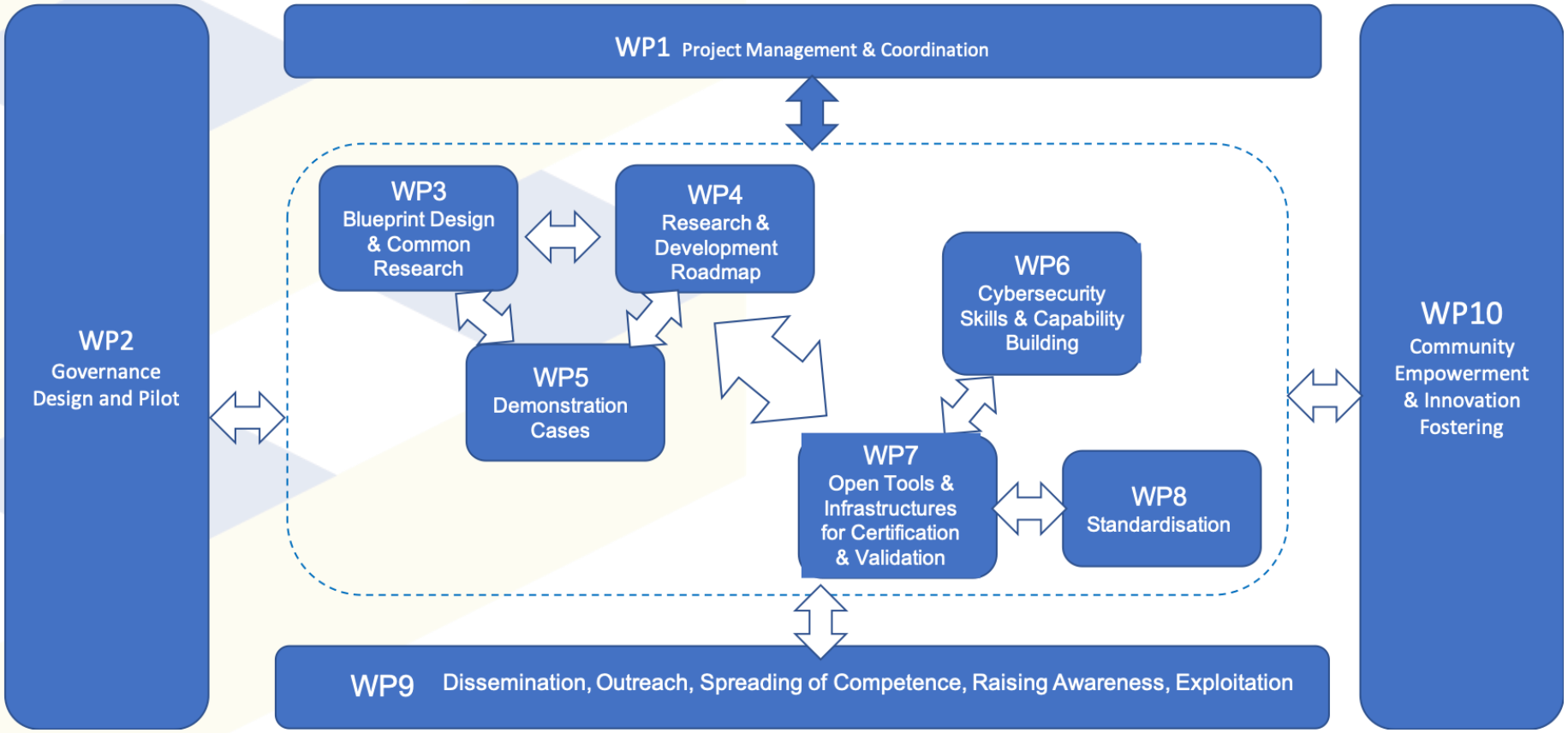
- **secures and maintains a healthy democratic society**, according **to European constitutional values** is a **world-leading** digital economy
- boost the **success of businesses;** and
- **protects the rights of citizens** in the EU by aligning real-world issues, cyber threats and security problems

Five Pillars for An Effective Cybersecurity Competence Network

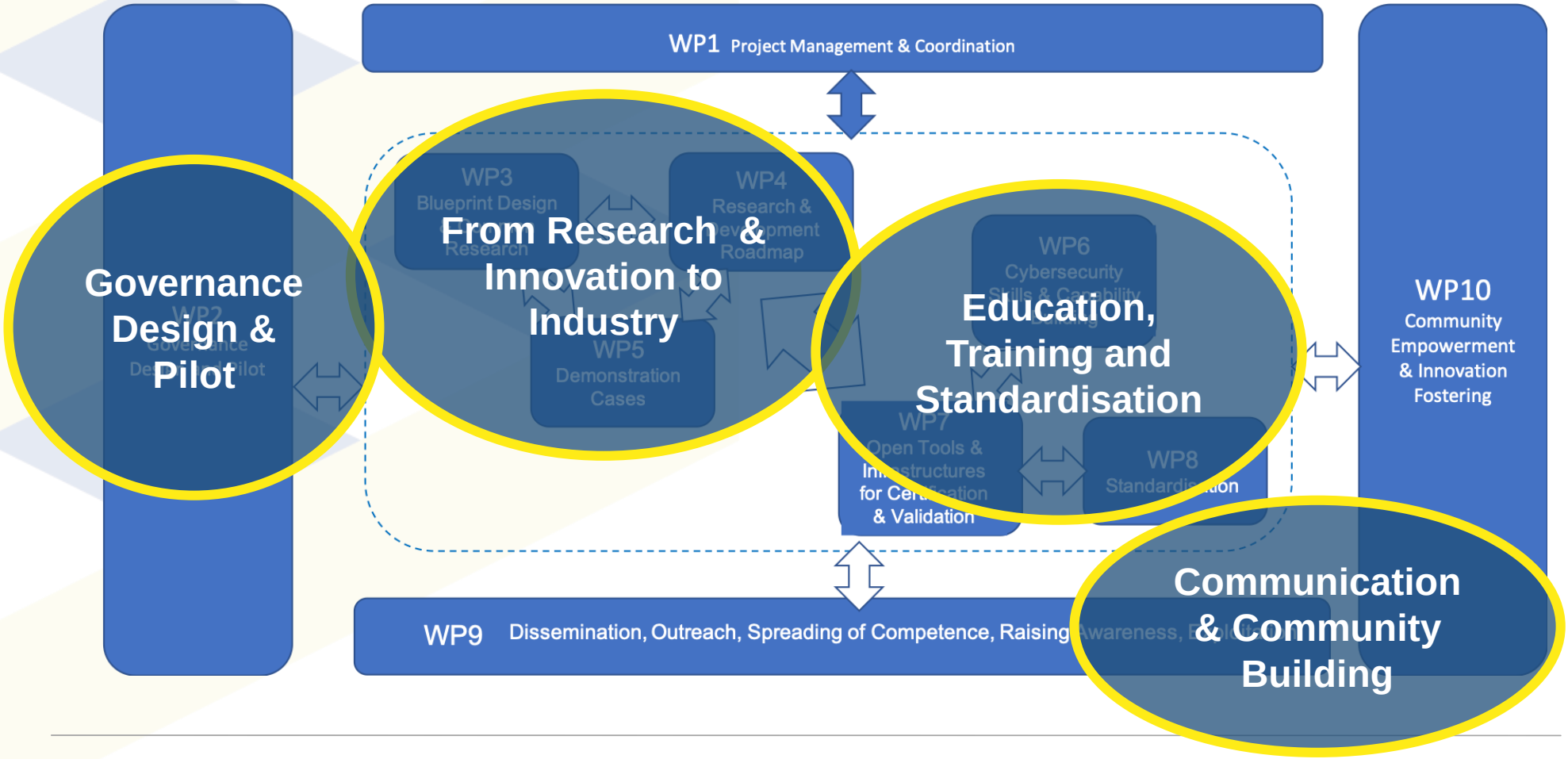
Cyber Security for Europe

1. Governance
2. Cooperation
3. Building **future-oriented** European capabilities
4. EU leadership in cybersecurity **innovation**
5. Supporting the complete industrial **value chain**

Work Structure

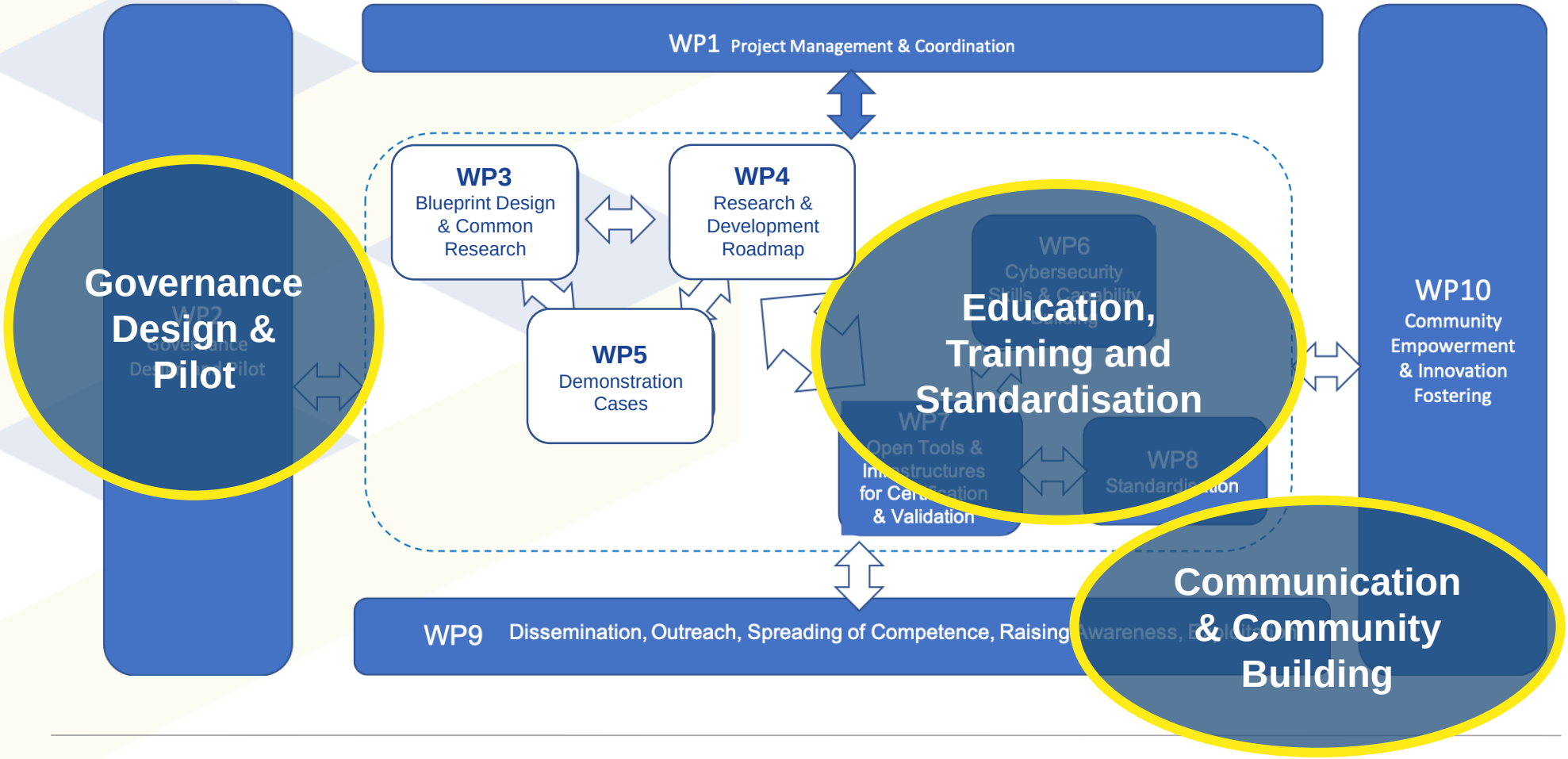


Work Synergies



From Research & Innovation to Industry

Cyber Security for Europe



Industry Verticals for Project Demonstrators

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Transport

Finance

Health

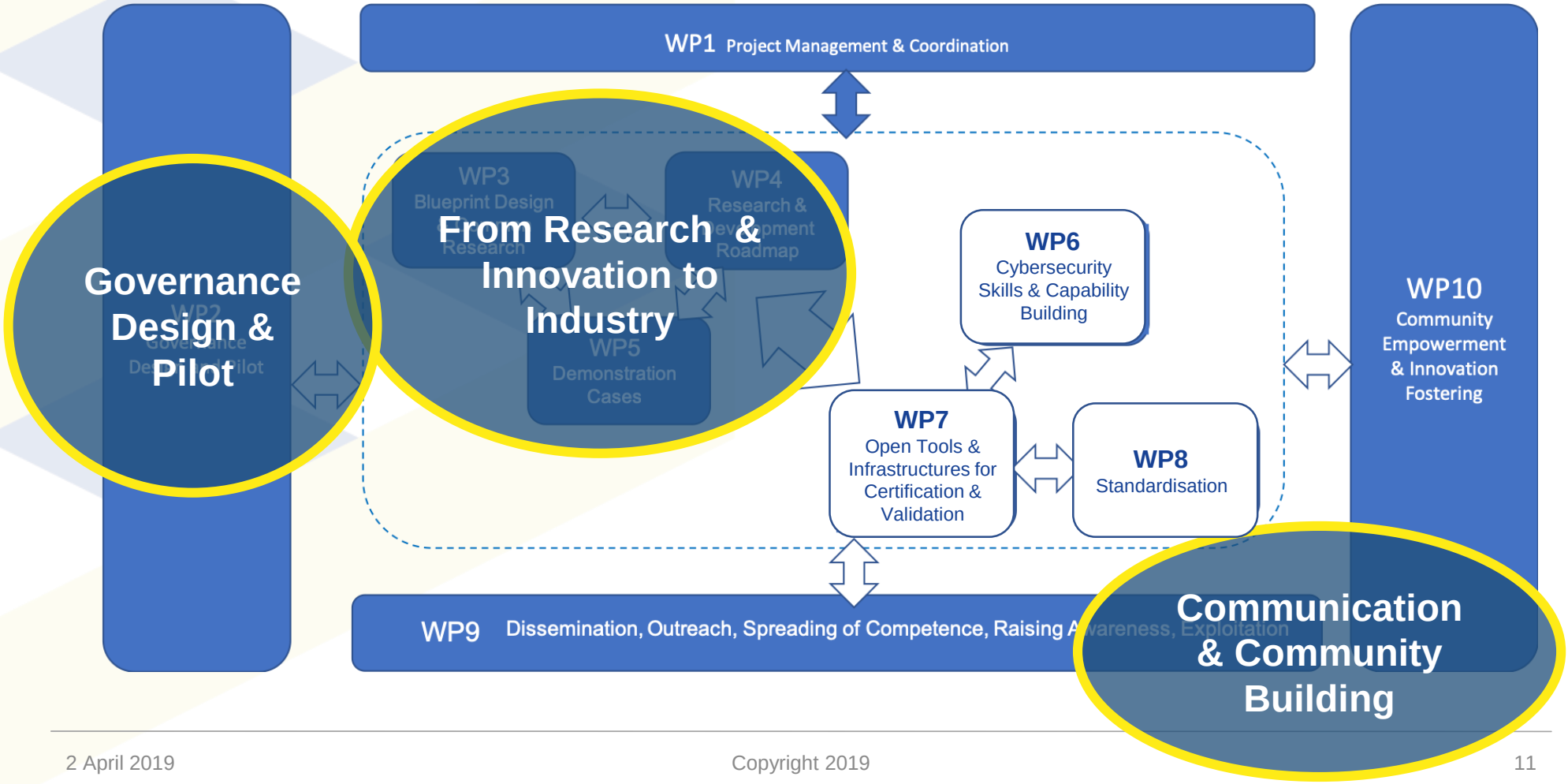
Smart Cities & Communities

Matching Industry Demonstrators with Blueprint Research

Research and integration on cybersecurity enablers and underlying technologies

Regulatory sources for citizen-friendly goals

Education, Training & Standardisation



Cybersecurity Skills and Capability Building

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Combines formal, professional and non-traditional skill building

- University education >> map education in Europe
- Professional training and workforce assessment
- Virtual education
  - Quality branding of MOOC education will be the first pilot of governance to be delivered
- Cyber ranges as platforms for education, training

Open Source and Cyber Ranges

Open tools and infrastructures for certification

- Open tools and common portable virtual lab
- Federated infrastructures for cyber range and testing
- Certification – methodologies, tools, and infrastructure

Standardisation

Increase economic impact of EU research and innovation by disseminating EU tech into international standards

- Maintaining contacts with standards organisations
- Assessing existing procedures in the context of cybersecurity
- From technical work >> standards
- Bring together standards projects and key cybersecurity experts

From Standardisation to Open Source and Cyber Ranges

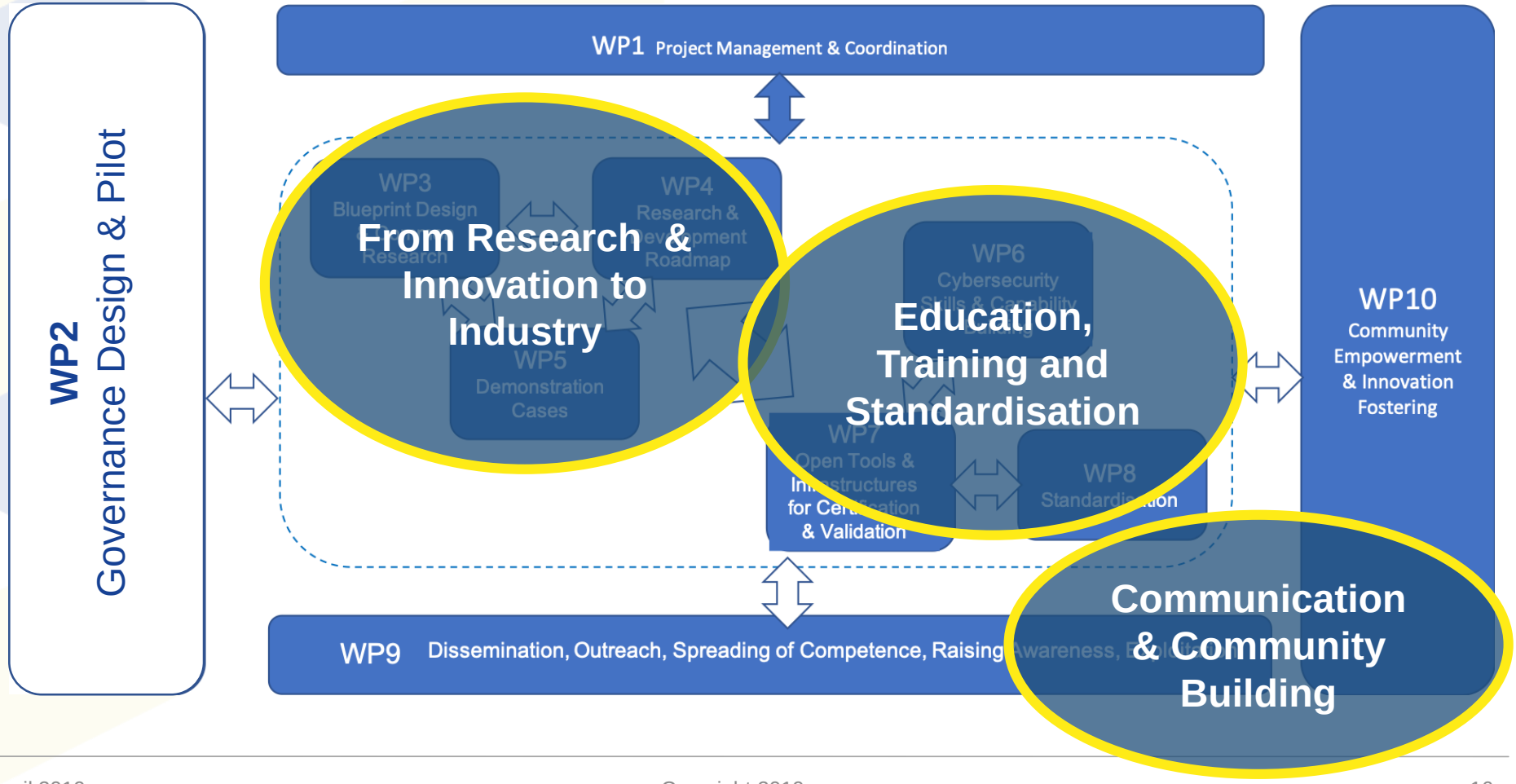
Cyber Security for Europe

Increase economic impact of EU research and innovation by disseminating EU tech into international standards

From technical work to standards

Open tools and infrastructures for certification

Governance Design & Pilot

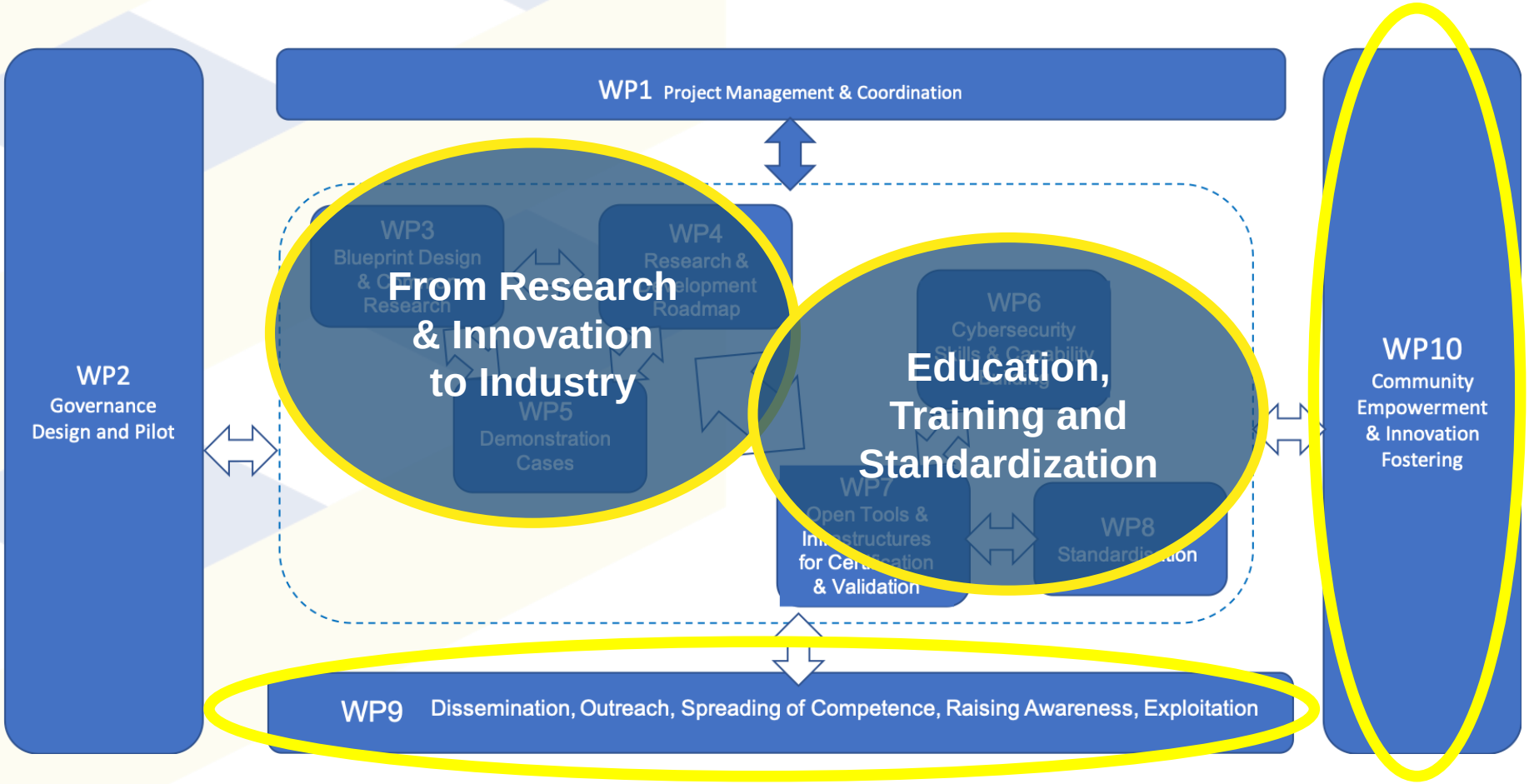


Governance Design and Pilot Tasks

- Taking inspiration from, for example, the CERN model

- Stakeholder viewpoints
  - If you have strong opinions >> we would like to interview you!
- Assessing best governance practices
- Governance structure design
- Operation and testing of the governance structure
- Preparation for the future Cybersecurity Competence Network

Communication Narratives



Cybersecurity Stakeholders

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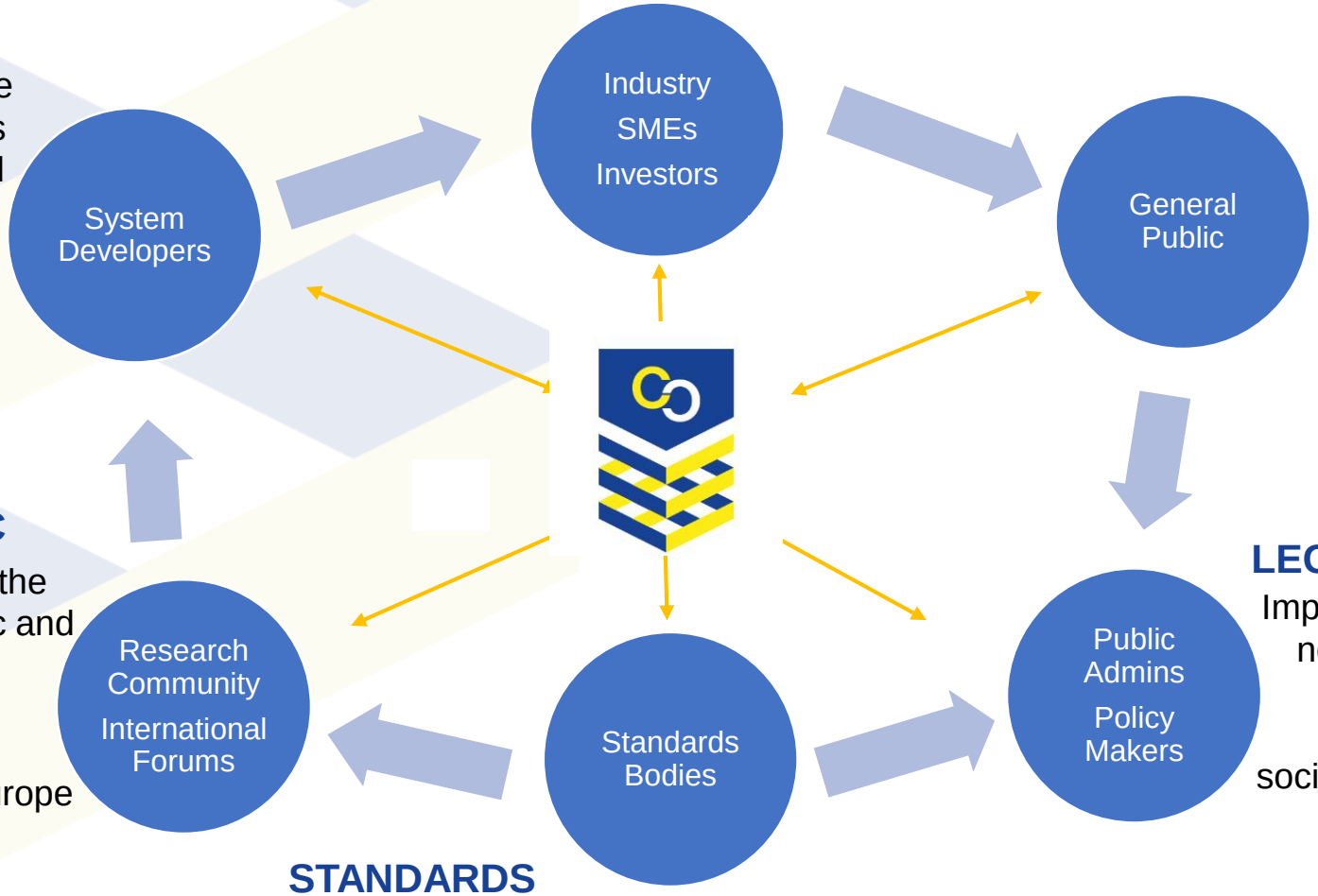
BUSINESS Business opportunities and potential of technology and societal benefits

TECHNICAL
Understandable by ICT systems developers and system managers



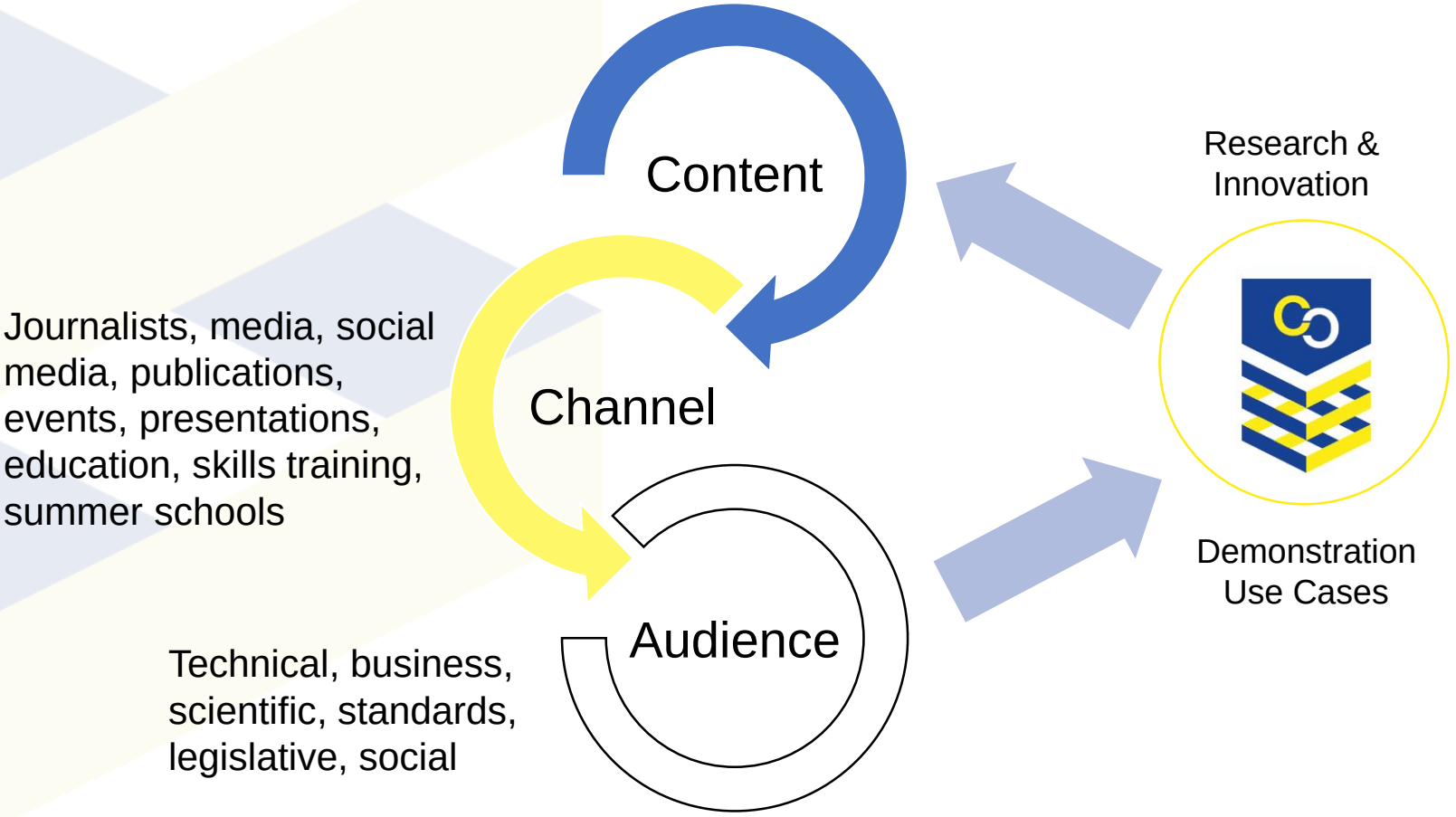
SOCIAL
Understandable by a large public of non-specialists

SCIENTIFIC
High level on the main scientific and technical innovation addressed by CyberSec4Europe

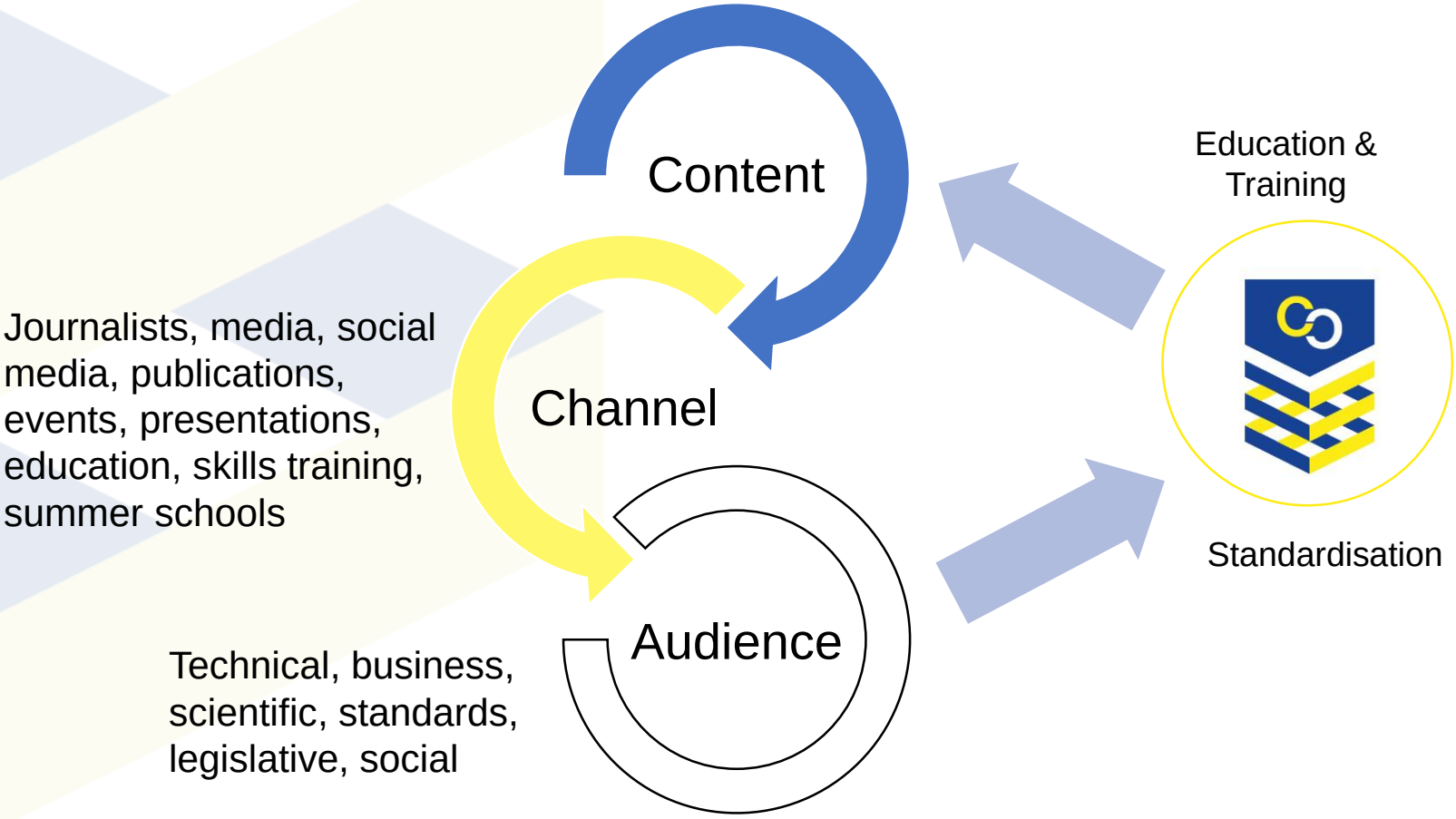
LEGISLATIVE
Implementation of new EU privacy and security regulation and social implications

STANDARDS

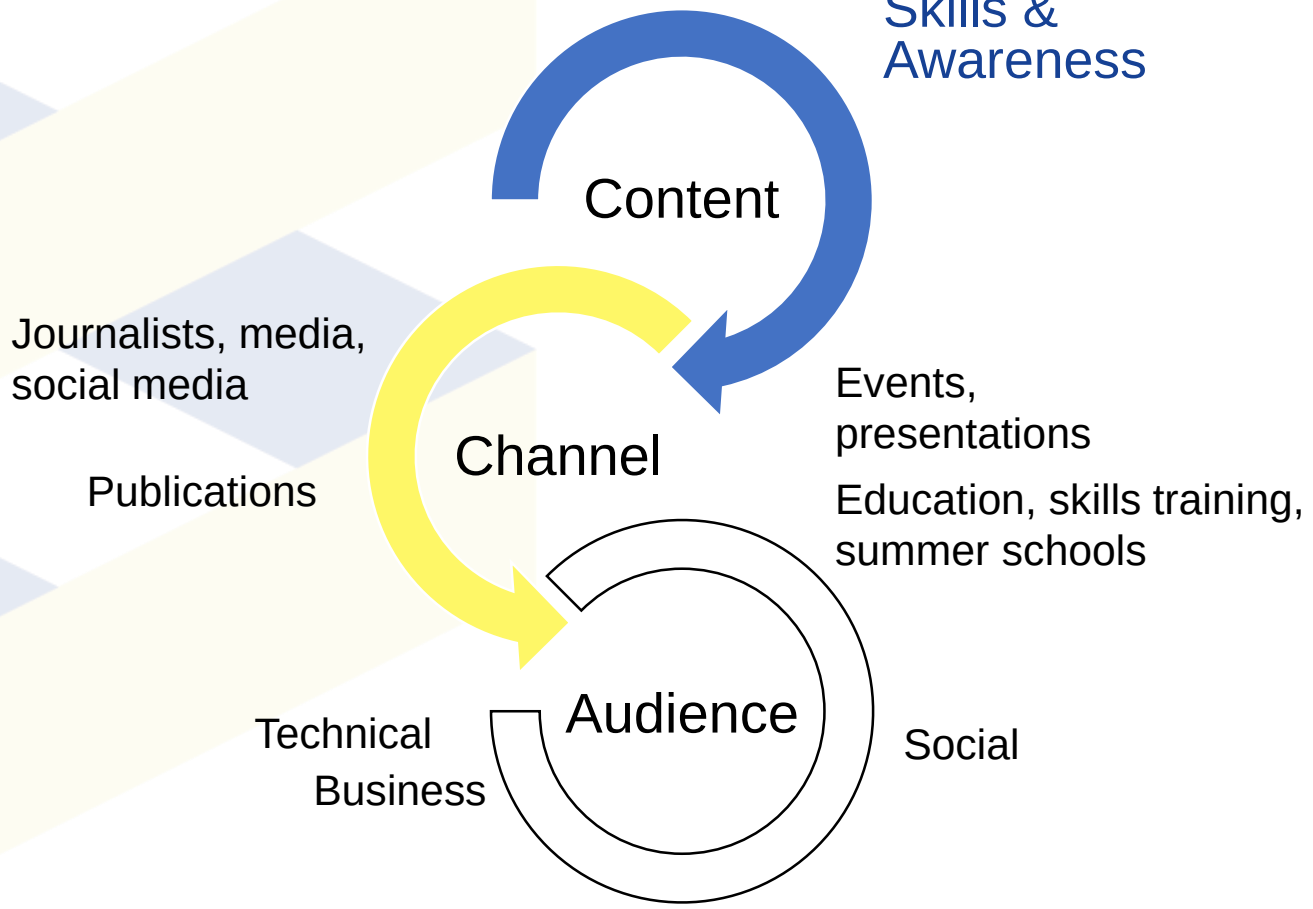
Communication & Dissemination



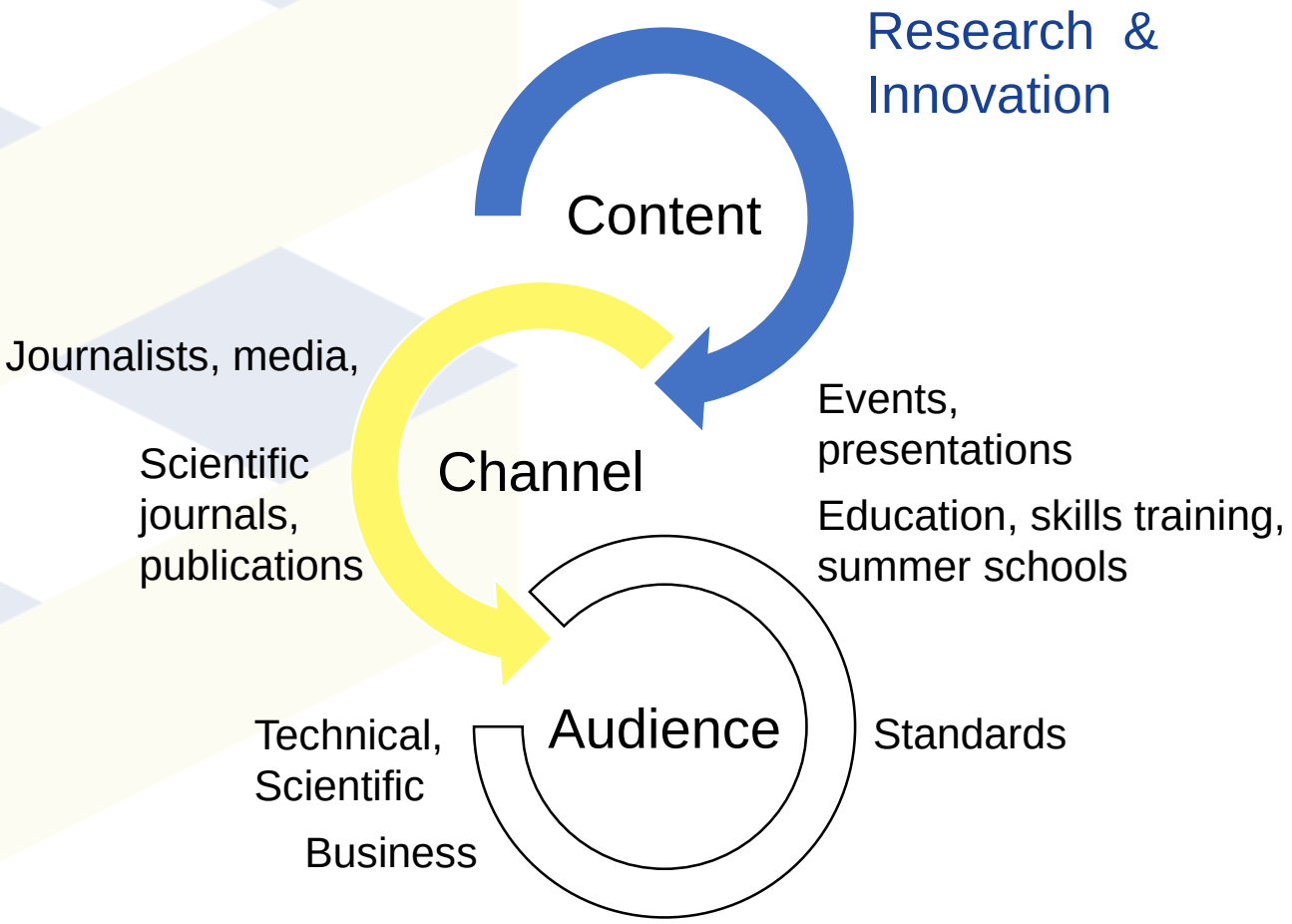
Communication & Dissemination



Spreading Awareness



From Research & Innovation to Industry



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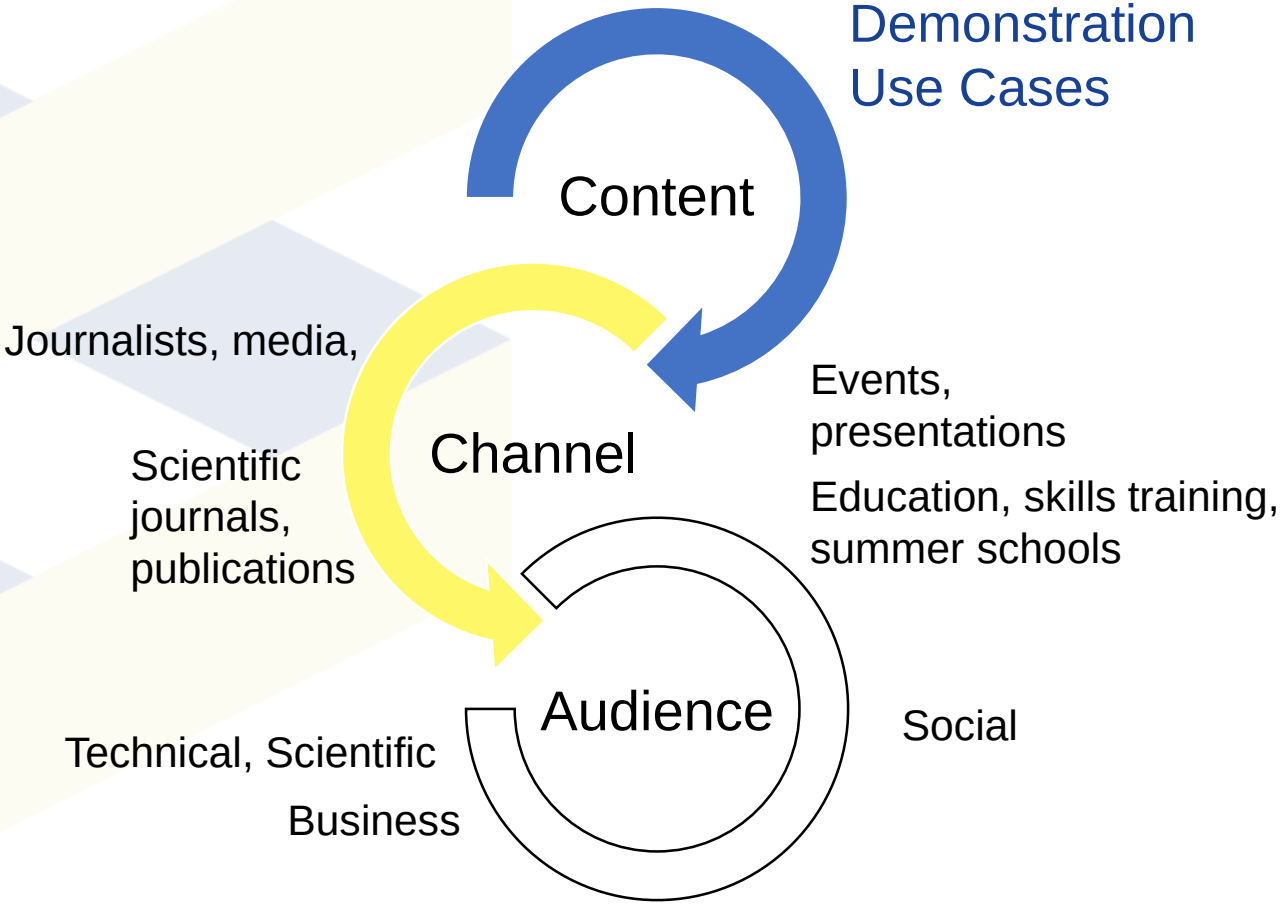
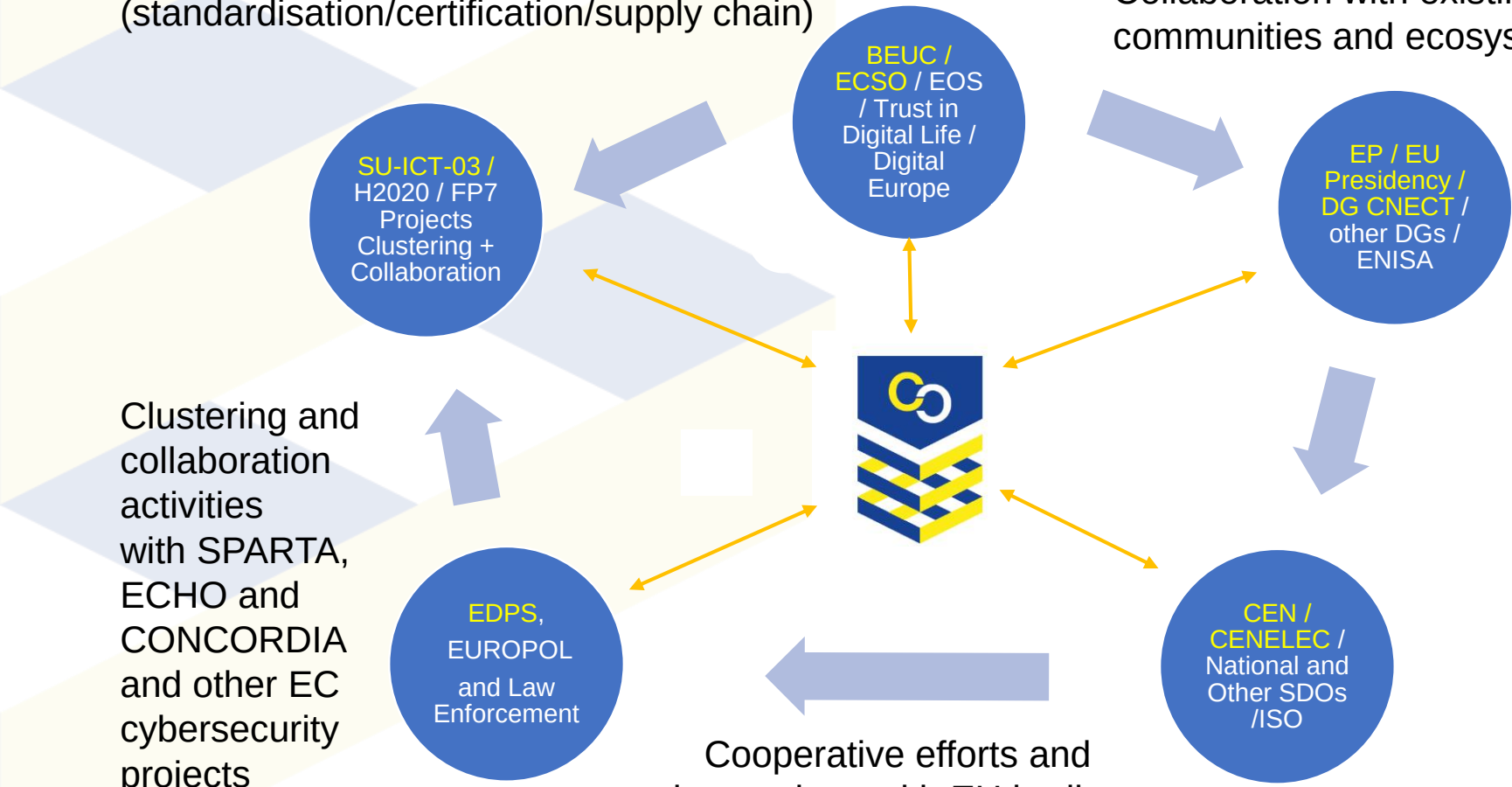


Community Empowerment and Innovation Fostering

Close working relationship with ECSO WG1 (standardisation/certification/supply chain)

Collaboration with existing cybersecurity communities and ecosystems innovation



Clustering and collaboration activities with SPARTA, ECHO and CONCORDIA and other EC cybersecurity projects

Cooperative efforts and interactions with EU bodies

Working Together Towards A Common Objective

Cyber Security for Europe

Thank you!

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