



The Cyber Competence Network: The Four Pilots

Working Together Towards A Common Objective

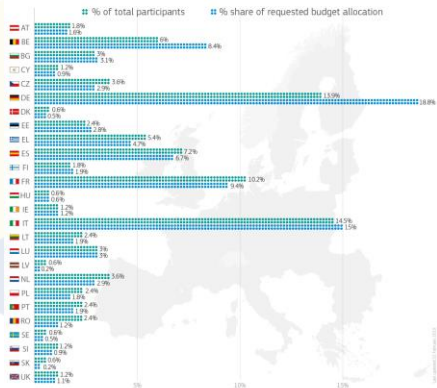


Cybersecurity
Horizon 2020 pilot projects
to prepare a European Cybersecurity Competence Network
& contribute to the European cybersecurity industrial strategy

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

<p>CONCORDIA Partners: 46 EU Member States involved: 14 Key words: SME, Cyber ecosystem, Ecosystem for education, State research aspects of security, Virtual labs and services, Threat Intelligence for Europe, CSIS Clearing House for Europe, AI for cybersecurity, Post-Quantum cryptography</p>	<p>Cyber Security for Europe Partners: 43 EU Member States involved: 20 Key words: Cybersecurity for citizens, Application cases, Research Excellence, Cyber Range, Cybersecurity certification, Training in security</p>	<p>ECH Partners: 30 EU Member States involved: 15 Key words: Research of Cybersecurity issues, Cyber Range, Cybersecurity demonstration cases, Cyber skills Framework, Cybersecurity certification, Cybersecurity early warning</p>	<p>SPARTA Partners: 44 EU Member States involved: 14 Key words: Research Governance, Cybersecurity skills, Cybersecurity certification, Community engagement, International cooperation, Strategic Autonomy</p>
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More than **160 partners** from **26 EU Member States**



A European network of cybersecurity centres of excellence

Four pilot cybersecurity network



Partners **55**
Member States **19**

Keywords

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**
Member States **20**

Keywords

Cybersecurity for citizens
Application cases
Research governance
Cyber ranges
Cybersecurity certification
Training in security



Partners **30**
Member States **15**

Keywords

Network of cybersecurity centers
Cyber range
Cybersecurity demonstration cases
Cyber-skills framework
Cybersecurity certification
Cybersecurity early warning



Partners **44**
Member States **14**

Keywords

Innovation governance
Cybersecurity skills
Cybersecurity certification
Community engagement
International cooperation
Strategic autonomy

Changing Europe' cybersecurity research and innovation landscape



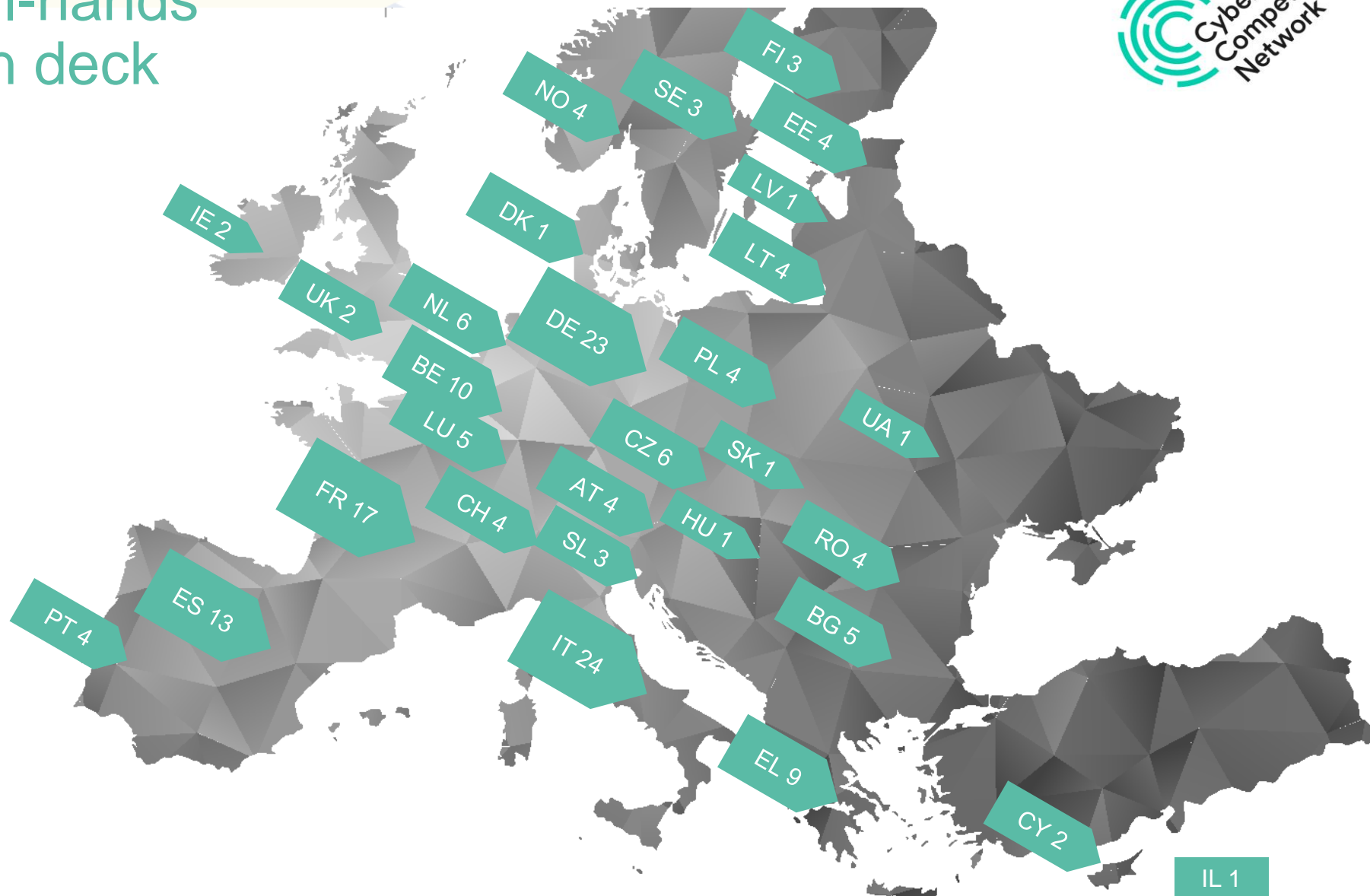
Strong academic performers
Insufficient critical mass

Diversity and ethics
Risk acceptance
Horizontal leverage
Open leadership



Intensified partnerships
World-leading capacities

All-hands on deck



Nurturing synergies



Industry engagement

- SME and regional eco-systems
- Cross-domain collaborations

Research and innovation

- Ties with ongoing calls and projects
- Consolidation with grassroots initiatives

Inclusive community-building

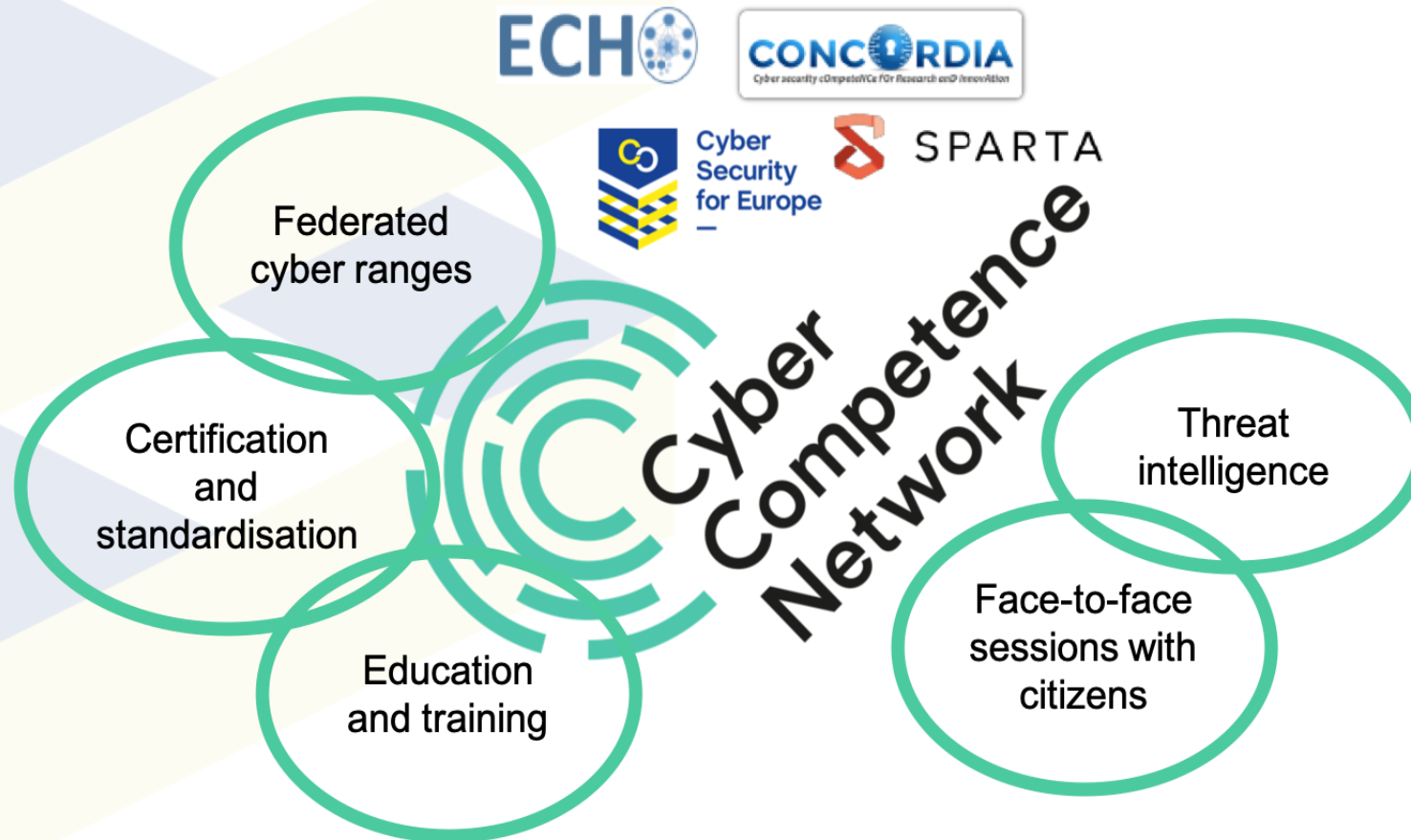
- End-users, pure players, academia, hacker spaces, member states
- Service catalogue for various stakeholders
- Extension of network memberships

Capacity-building

- Skills, education, and training curricula
- Platforms: federated cyber ranges



Early collaborative synergies





Cyber Security for Europe

CYBERWISER.eu
Cyber Range & Capacity Building in Cybersecurity

**Pitch the needs of your own pilot
& we'll train you!**

Your chance to train your staff, for **free**.
Prepare your company to face **cybersecurity**
threats and **attacks**.

Register now!
Only few more seats available

Pisa, 5 November 2019 – Domus Comeliana

Cyberwiser Workshop Panel with Competence Centre pilot projects: CyberSec4Europe

David Goodman, Trust in Digital Life

Pisa, 5 November 2019



CyberSec4Europe is funded by the
European Union under the H2020
Programme

Grant Agreement No. 830929

About CyberSec4Europe



CyberSec4Europe is a research-based consortium working across four different but inter-related areas with a strong focus on openness and citizen-centricity in order to:

- Pilot a European Cybersecurity Competence Network
- Design, test and demonstrate potential governance structures for the network of competence centres
- Harmonise the journey from software componentry identified by a set of roadmaps leading to recommendations
- Ensure the adequacy and availability of cybersecurity education and training as well as common open standards
- Communicate widely and build communities

Who Are CyberSec4Europe?

Centres of Excellence /
Universities / Research
Centres / SMEs

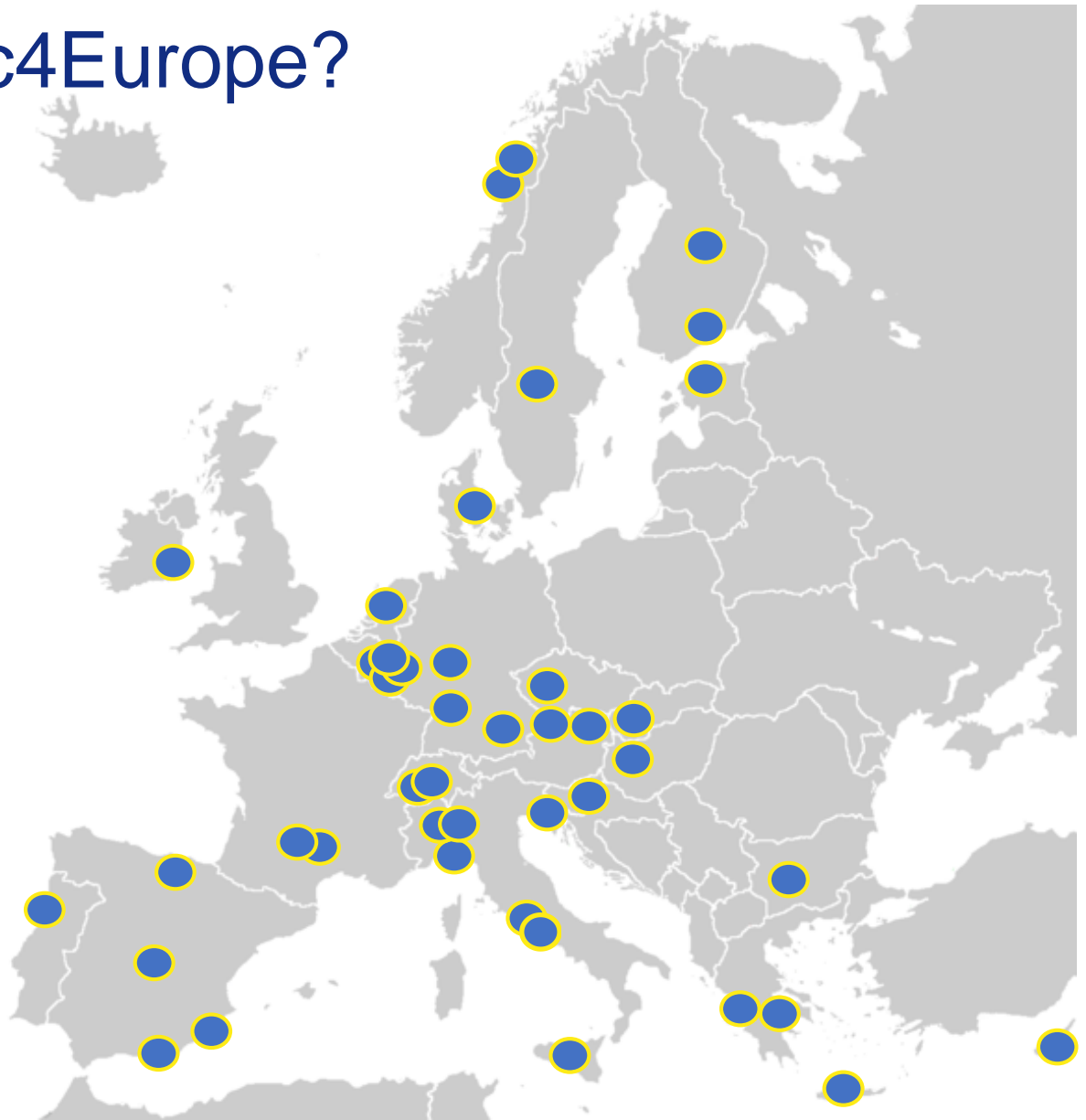
43 partners in 22 countries

26 ECISO members
involved in 6 ECISO
Working Groups

Existing networks (ECISO,
TDL, EOS, CEPIS)

Experience from over 100
cybersecurity projects in
14 key cyber domains

11 technology/ application
elements and coverage of
nine vertical sectors



Consortium Participants



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)

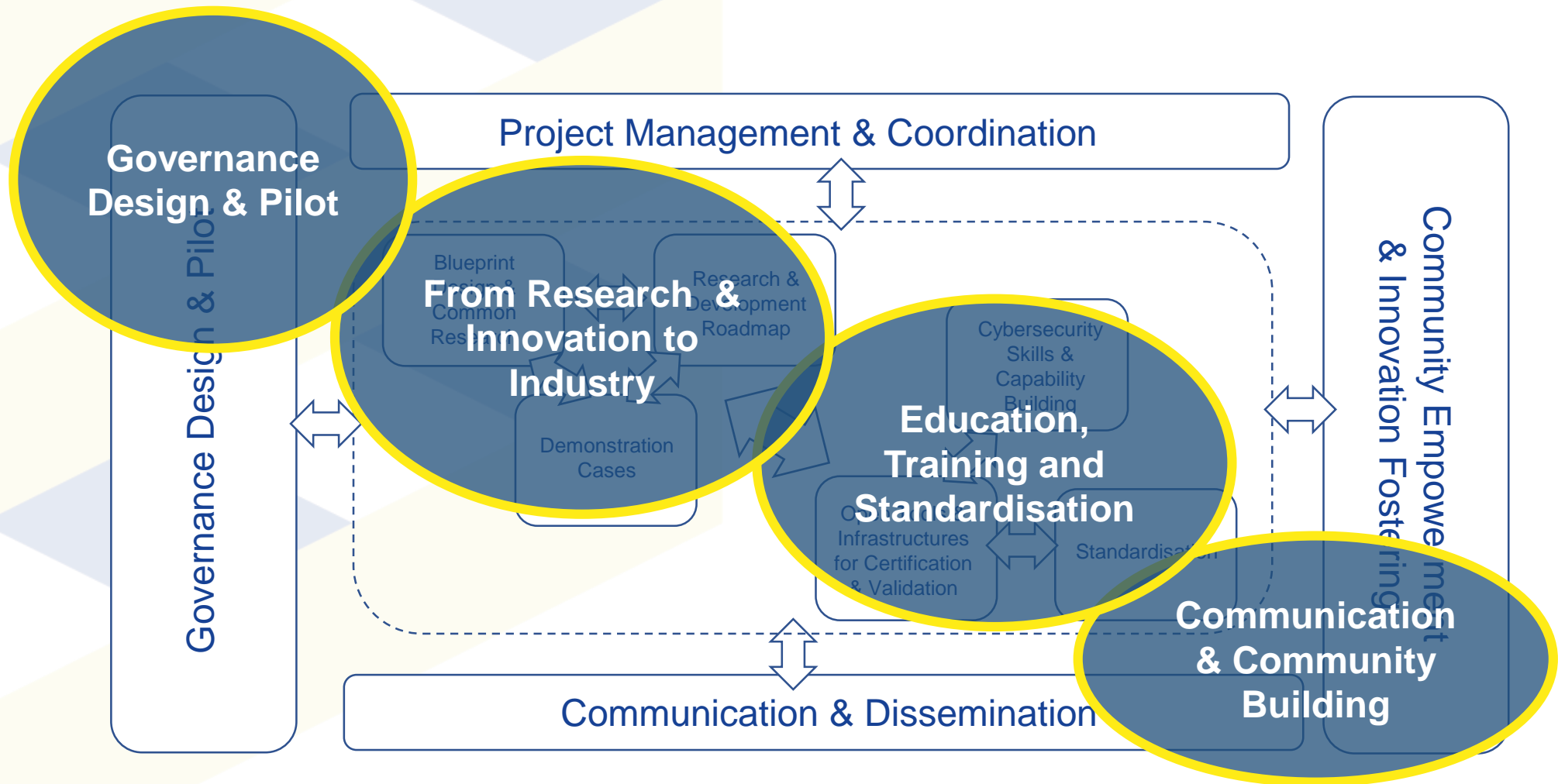
University of Piraeus (EL)

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

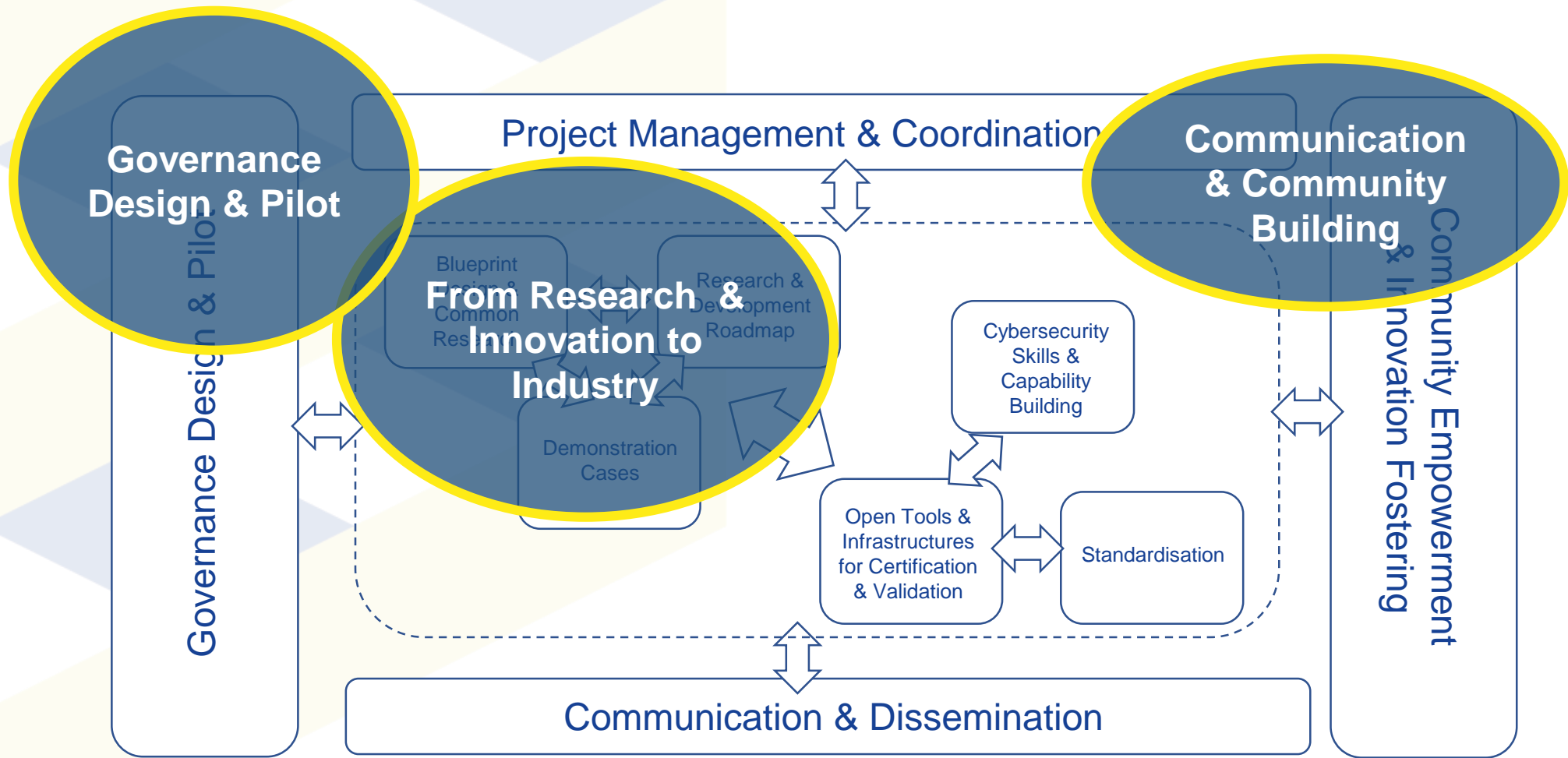
VaF (SK)

VTT (FI)

Piloting a Competence Network



Education, Training & Standardisation



Cybersecurity Skills & Capability Building



Combines formal, professional and non-traditional skill building

- University education leading to a map of education in Europe
- Professional training and workforce assessment
- Virtual education
 - Quality branding of MOOC education was the first pilot of governance delivered in the summer
- Cyber ranges as platform for education, training

Cybersecurity Skills

To set an education and training framework

and related instruments to support continuing education and lifelong learning in cybersecurity, organized to demonstrate the effectiveness of governance models and full transfer of pilot results to the future Centre's operations.

Learning objectives and competences

required to develop and enhance cybersecurity skills for different profiles and roles.

Knowledge units & curricula, training and awareness

to achieve objectives and competences, setting activities to apply and test such competencies.

Implementing the CyberSec4Europe education strategy

for citizens, students, and professionals promoting the project brand / guidelines / procedures to produce and consume content.

Cyber Ranges

A **lightweight cyber range** from existing proven building blocks

Construct open tools and a common portable virtual lab

Federated infrastructures for cyber range and testing

Examine and provide **open tools**

Certification – methodologies, tools and infrastructures

Map **existing cyber ranges**

Certification

Methodologies, tools and infrastructures

To define governance and supporting services for security certification, with research, support, guidance and training for validation and certification of security properties of devices and systems for EU industry.

Investigating
certification for
critical
infrastructure
components

Reducing time to
certification of
critical sector
cyber physical
systems

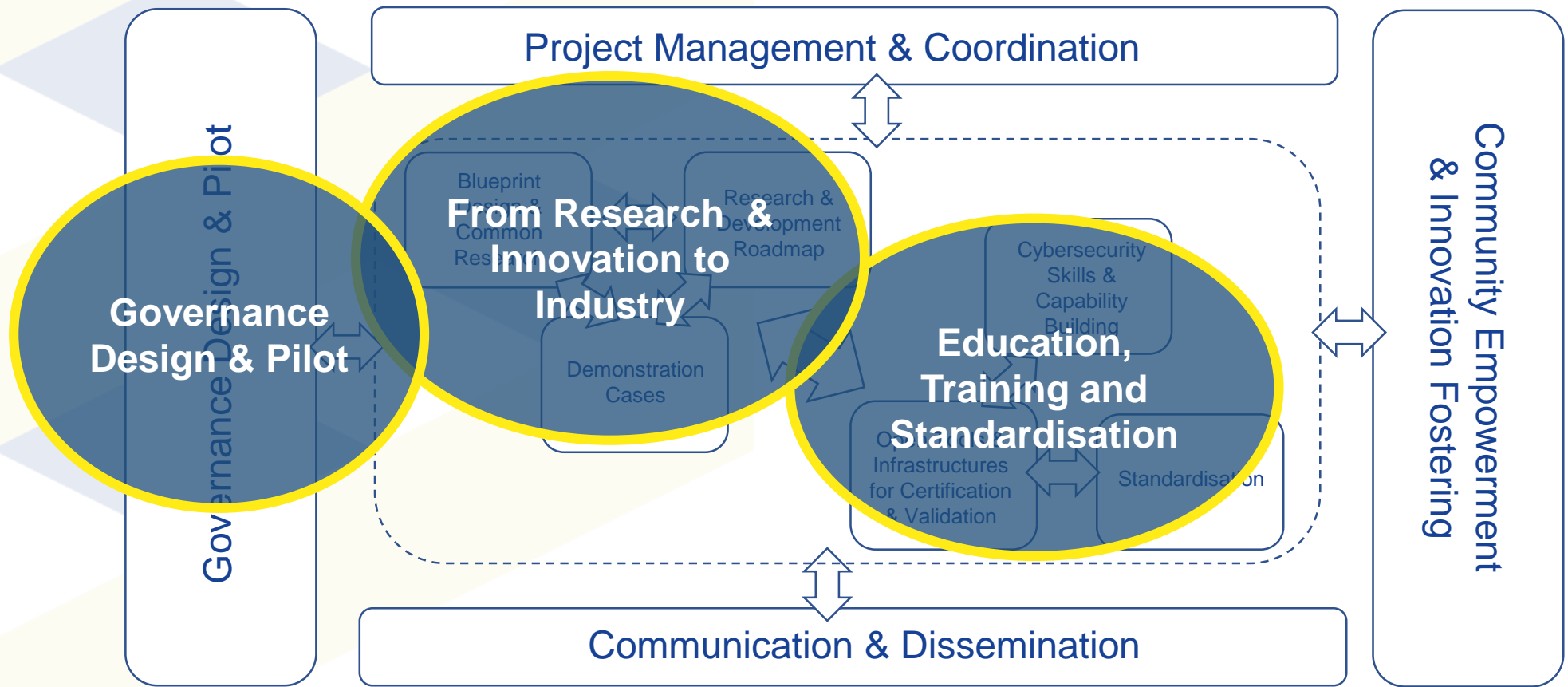
Aligning with
ECSSO, on future
certification and
harmonisation

Aligning efforts
with ENISA and
ECSSO
framework
policy work

Cooperating with
tools / services,
standardization,
conformity and
validation

Assessing the
Cybersecurity
Act, ISO27001
and GDPR

Communication & Community Building

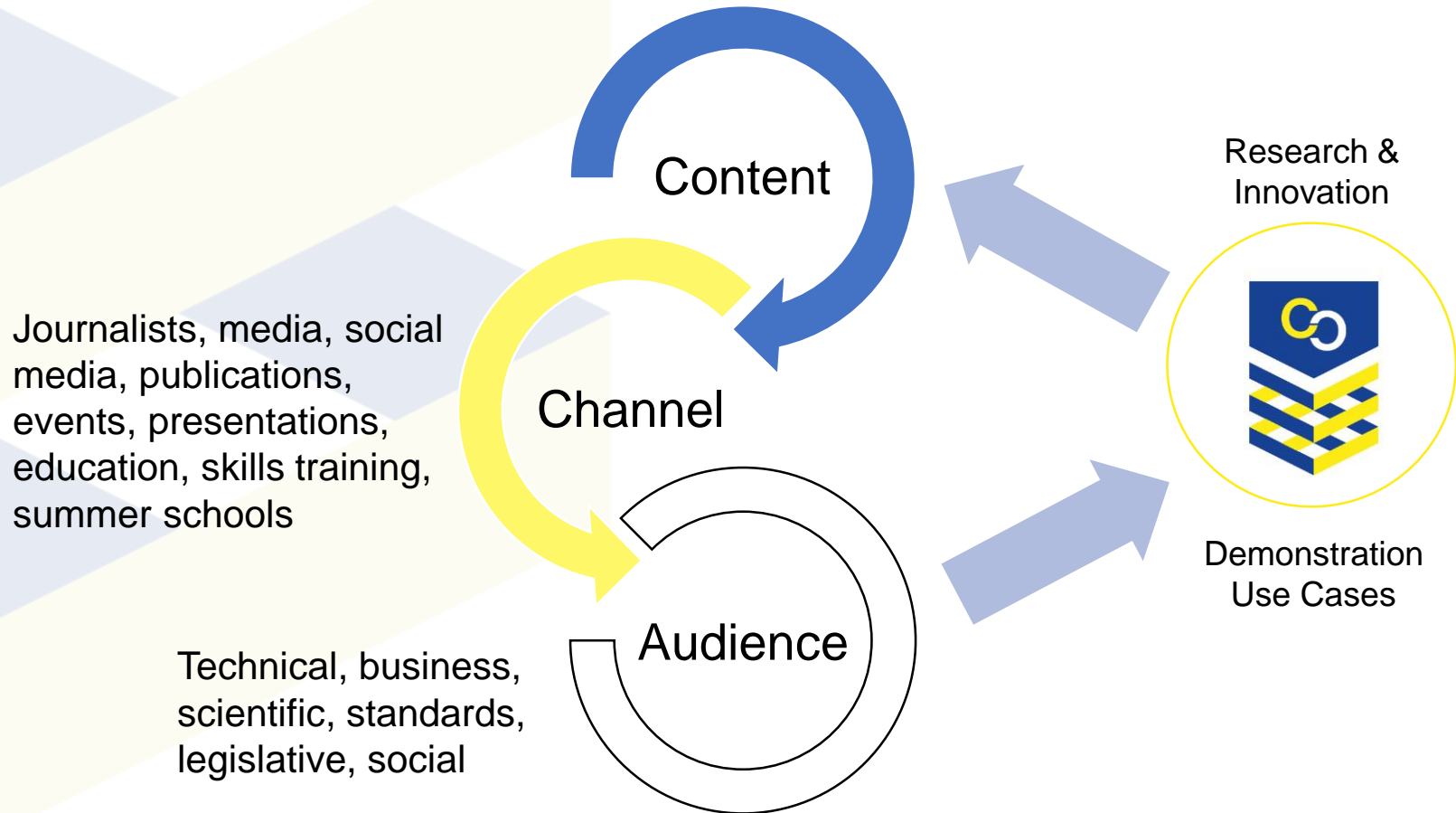


Dissemination and Communication

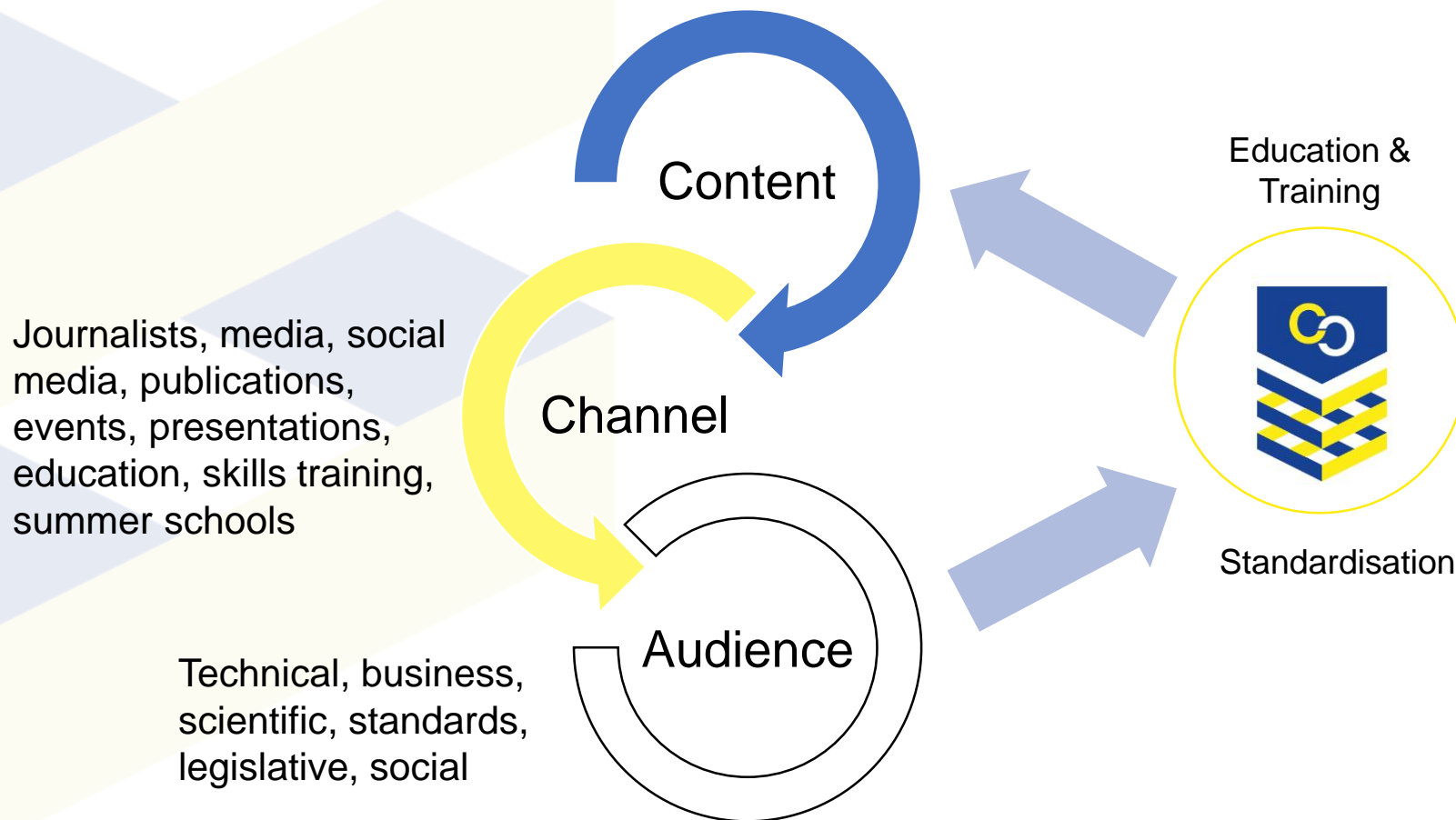
Dissemination is the spreading of results and best practice both on a peer-to-peer basis and across to industrial stakeholders and policy makers.

Communication is aimed at a wider audience with a number of sub-sets. At a fundamental level, it means every SME and citizen of Europe

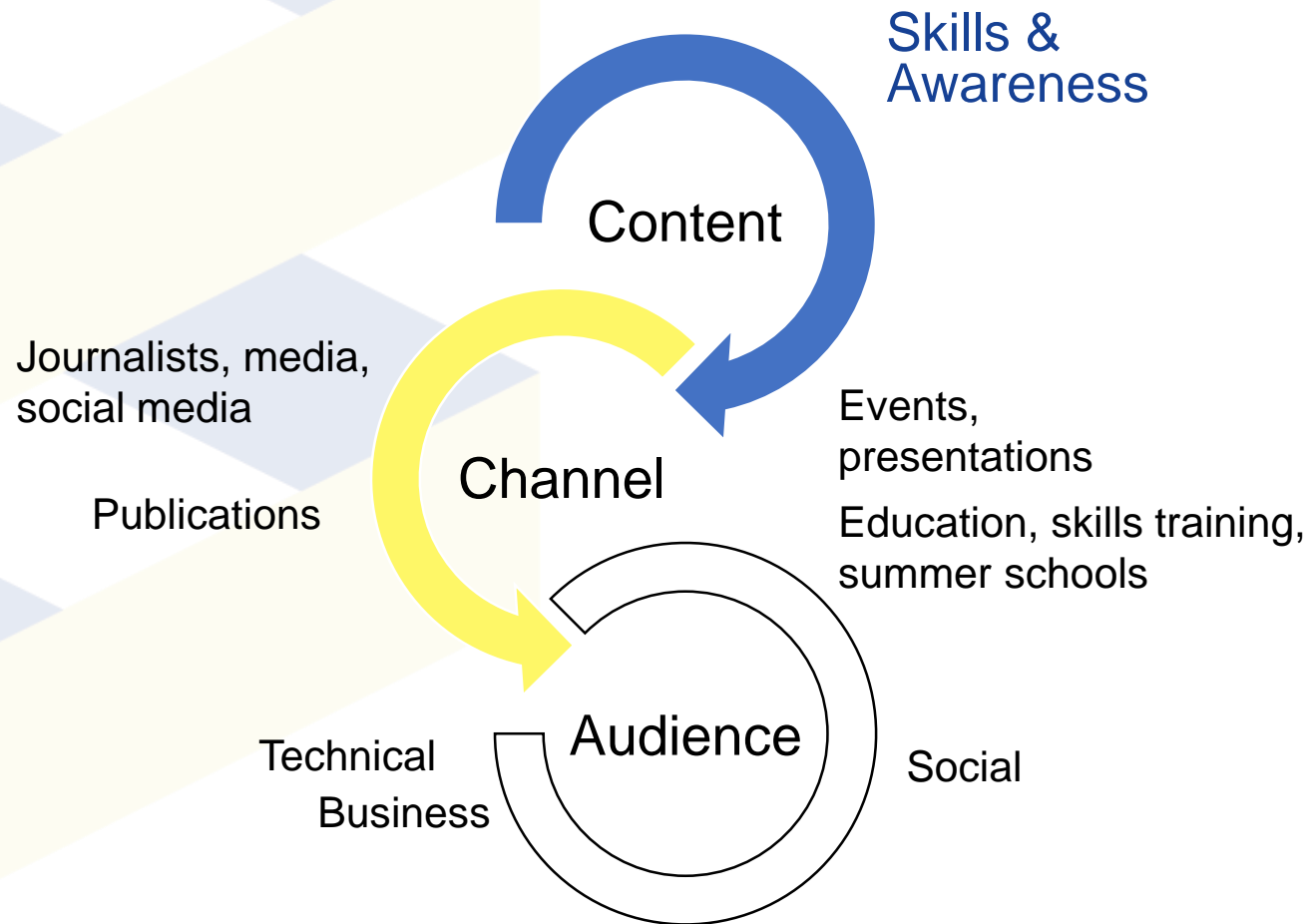
Communication & Dissemination



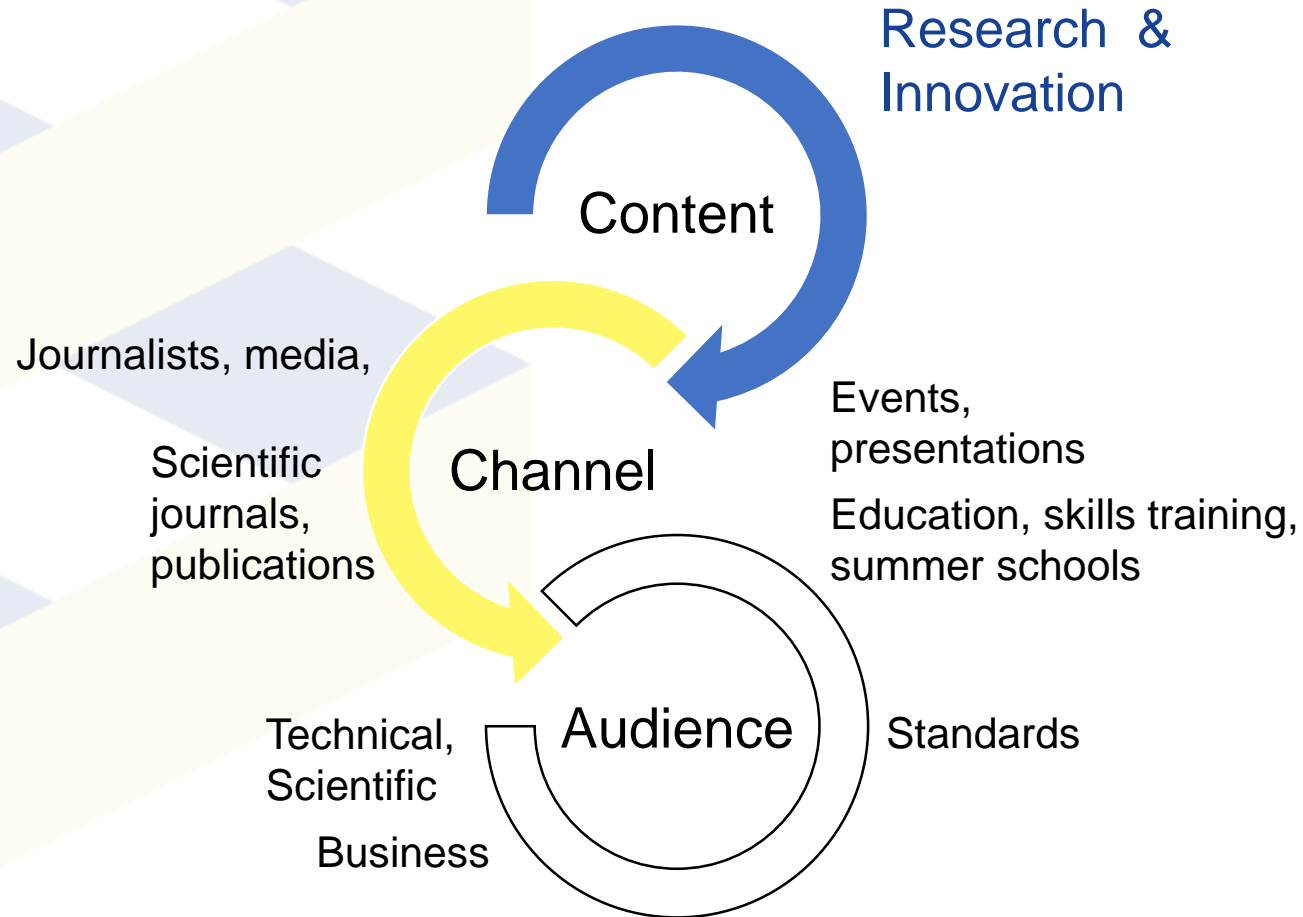
Communication & Dissemination



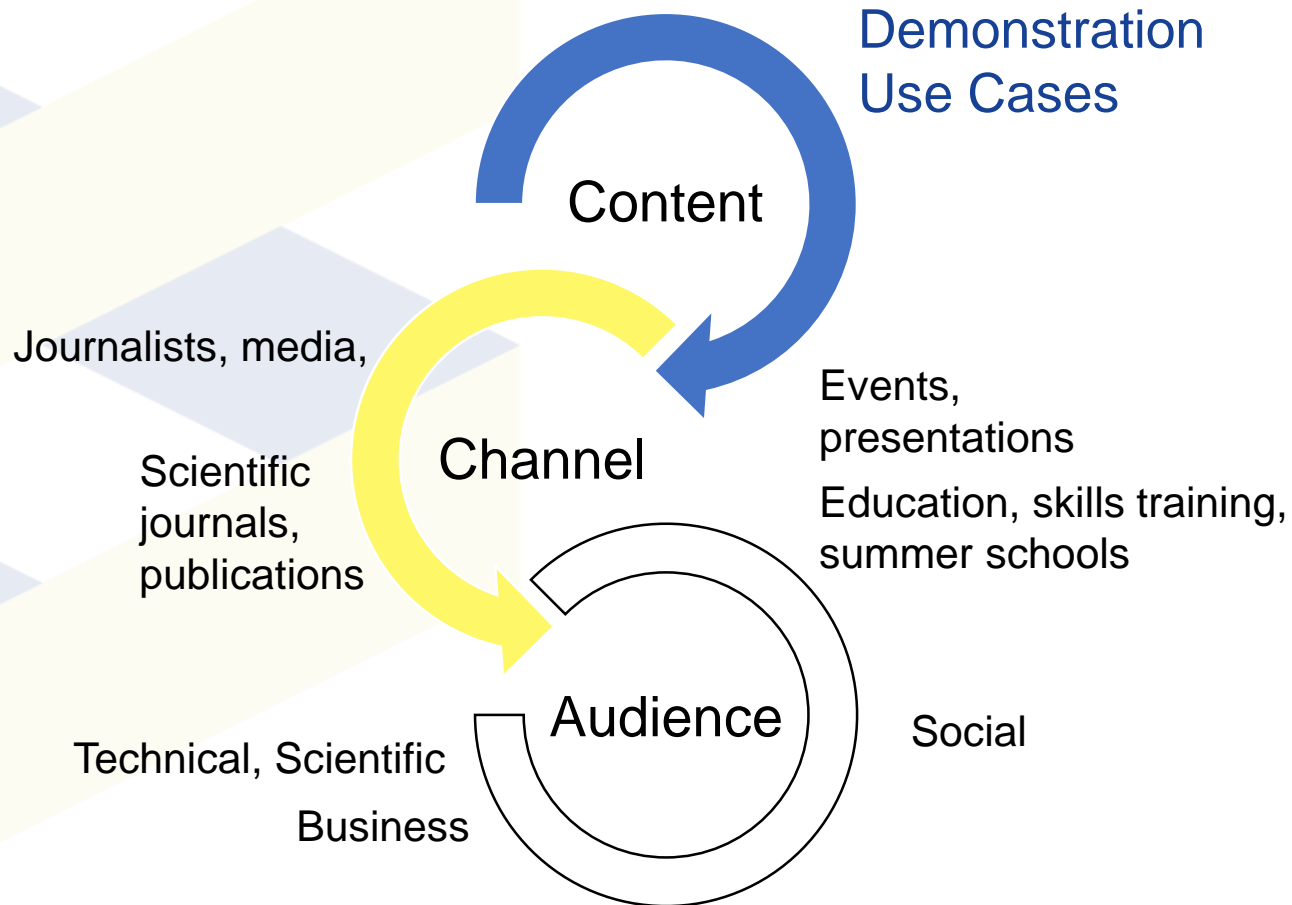
Spreading Awareness



From Research & Innovation to Industry



From Research & Innovation to Industry



Cybersecurity

13-15 November 2019
Occitanie Regional Government



Three days of conversation & networking

- With the EC, the Commission, the French Government, academia as well as industry and cybersecurity communities
- Opportunities to hear from experts, explain their results and identify synergies with the other stakeholders
- Illustrations of protected actions

CYBERSECURITY FOR EUROPE 2019

13-15 November 2019
Hôtel de Région, Toulouse
22 Boulevard du Maréchal Juin,
FRANCE

OCSSImore Digital & Sécurité
Occitanie
IRIT Institut de Recherche en Informatique de Toulouse
UNIVERSITÉ TOULOUSE III PAUL SABATIER

Topics:

- Policy
- Strategy for cybersecurity
- Innovation
- Security governance
- Data sharing for
- Managing identities in
- European cybersecurity

Come and join us!



Cyber
Security
for Europe
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CYBERSECURITY FOR EUROPE 2019





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Thank you!

david@trustindigitallife.eu

cybersec4europe.eu

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