

# **European Cybersecurity PPP**

## **European Cyber Security Organisation - ECSO**

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# Objectives of the cPPP

**Gather industrial and public resources to deliver innovation against a jointly-agreed strategic research and innovation roadmap.**

**Maximize available funds through better coordination with MS.**

**Focus on a few technical priorities defined jointly with industry.**

**Seek synergies to develop common, sector-neutral technological building blocks with maximum replication potential**

**Obtain economies of scale through engagement with users/demand side industries and bringing together a critical mass of innovation capacities.**

**Be a platform to discuss other supporting measures for the industry**

# HORIZON 2020



- **H2020 = legal framework** for the establishment of the cPPP
- **H2020 LEIT-ICT** to focus on technology-driven digital security building blocks and horizontal requirements
- **H2020 Societal Challenge 'Secure Societies'** to deliver societal benefits for users of technologies (citizens, SMEs, critical infrastructures...).
- **H2020 public funds to be matched by private sector investment**

## AIM

1. Foster cooperation between public and private actors at early stages of the research and innovation process in order to allow people in Europe to access innovative and trustworthy European solutions (ICT products, services and software). These solutions take into consideration fundamental rights, such as the right for privacy.
2. Stimulate cybersecurity industry, by helping align the demand and supply sectors to allow industry to elicit future requirements from end-users, as well as sectors that are important customers of cybersecurity solutions (e.g. energy, health, transport, finance).
3. Coordinate digital security industrial resources in Europe.

## BUDGET

The EC will invest up to €450 million in this partnership, under its research and innovation programme Horizon 2020 for the 2017-2020 calls (4 years). Cybersecurity market players are expected to invest three times more (€ 1350 mln: leverage factor = 3) for a total of €1800 mln.

## A DOUBLE APPROACH, BEYOND TRADITIONAL EC PPPs: LINKING RESEARCH AND CYBERSECURITY INDUSTRIAL POLICY

The cPPP will focus on R&I, developing a SRIA and supporting its implementation in the H2020 Work Programme

The ECSO Association will tackle other industry policy aspects for the market and the industrial / economic development

ECSO will support the development of the European cybersecurity industry and EU trusted solutions, including cooperation with Third Countries.

## REFERENCE DOCUMENTS

1. Industry proposal
2. Strategic Research and Innovation Agenda (SRIA) proposal

## Identifies industrial operational and strategic objectives

1. Protecting critical infrastructures from cyber threats.
2. Use of massive data collection to increase overall security.
3. Increased European digital autonomy.
4. Security and trust of the whole supply chain
5. Investments in areas where Europe has a clear leadership.
6. Leveraging upon the potential of SMEs.
7. Increase competitiveness.

## **Identifies industrial cybersecurity challenges in Europe**

- Global cybersecurity and ICT market dominated by global suppliers from North America.
- Mature commodity market.
- Market fragmentation.
- Innovation led by imported ICT products.
- Innovation: strong in Europe but not always properly funded due to a lack of a consistent transnational approach. Results of Research and Innovation are hardly reaching the market. There is still a lack of strategy in European research
- Financial. Weak entrepreneurial culture, lack of venture capital.
- European industrial policies not yet addressing specific cybersecurity issues.
- Human factor.
- Sovereignty.
- Strategic supply chain dependency.

## Identifies industrial long term vision and objectives

Main strategic objectives for an industry-led European Cybersecurity cPPP

- The protection from cyber threats of the growth of the European Digital Single Market
- The creation of a strong European-based offering and an equal level playing field to meet the needs of the emerging digital market with trustworthy and privacy aware solutions
- The growth and the presence of European cybersecurity industry in the global market



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## 3 kind of KPIs

1. Industrial Competitiveness
2. Socio-Economic Security
3. Implementation and operational aspects of the cPPP

## Cyber technical projects / technical priority area

1. Assurance / risk management and security / privacy by design
2. Identity, access and trust management (including Identity and Access Management, Trust Management)
3. Data security
4. Protecting the ICT Infrastructure (including Cyber Threats Management, Network Security, System Security, Cloud Security, Trusted hardware/ end point security/ mobile security)
5. Security services (including Auditing, compliance and certification, risk Management, cybersecurity operation, security training services)

## Innovation deployment and validation / Integration projects

1. **Digital citizenships** (including identity management)
2. **Risk management for managing SOC, increasing cyber risk preparedness plans for NIS** etc.
3. **Information sharing and analytics for CERTs and ISACs** (includes possibly trusted SIEM, cyber intelligence)
4. **Secure Networks and ICT** (Secure and trusted Routers, Secure and Trusted Network IDS, Secure Integration, Open source OS). Particular emphasis and budget is given to this area, as considered fundamental and strategic for Europe and the possibility to develop solutions in sensitive / strategic areas where an increased Digital Autonomy is needed;

## Demonstration/ cyber pilot projects/ APPLICATION AREAS

1. Smart Grids (Energy)
2. Transportation (including Automotive / Electrical Vehicles / Rail / Logistics/ Aeronautics/ Maritime)
3. Smart Buildings and Smart Cities
4. Industrial Control Systems (Industry 4.0)
5. Public Administration and Open Government
6. Healthcare
7. Finance and Insurance
8. Telecom, media, content

## Security is a national prerogative.

- ➔ Stronger participation in ECSO of representatives from the national administrations, also at decision making level.
- ➔ Interest from national Public Administrations: Representatives to the two PCs + Ministries (Interior, Economy, etc.) + Regulatory Bodies + Public users.
- ➔ Participation in Working Groups & Task Forces to bring a governmental perspective and operational needs from the public administrations

**NAPAC** : A National Public Authority representatives Committee (NAPAC), instead of traditional “mirror groups”.

This Committee allows Public Administrations to have their own fora of dialogue with their own rules, while remaining in close contact and participating to ECSO activities, including the Board of Directors.

## 160 organisations... from 27 countries and counting

- Associations : 17
- Large companies: 50
- Public Administrations: 11
- Regional clusters; 2
- RTO/Universities: 41
- SMEs: 32
- Users/Operators (non telecom): 6

11 public authorities:

UK, ES, IT, FR, DE, SK, EE, FI, NO, CY, PL

More to come soon (BG, NL, ...)

AUSTRIA	5	ITALY	26
BELGIUM	4	LATVIA	1
BE - EU ASS	7	LUXEMBOURG	2
CYPRUS	4	NORWAY	4
CZECH REP.	1	POLAND	4
DENMARK	1	PORTUGAL	5
ESTONIA	4	ROMANIA	2
FINLAND	7	SLOVAKIA	2
FRANCE	20	SPAIN	25
GERMANY	14	SWEDEN	1
GREECE	2	SWITZERLAND	2
HUNGARY	1	THE NETHERLANDS	6
IRELAND	1	TURKEY	2
ISRAEL	1	UNITED KINGDOM	7

European Cybersecurity Council  
(High Level Advisory Group: EC, MEP, MS,  
CEOs, ...)

ECS - cPPP Partnership Board  
(monitoring of the ECS cPPP - R&I priorities)

EUROPEAN COMMISSION



Governance

ECSCO - Board of Directors  
(management of the ECSCO Association:  
policy / market actions)

INDUSTRIAL

R&I

Coordination / Strategy Committee **POLICY**

**Scientific & Technology Committee**

**WG 1**

Standardisation  
Certification /  
Labelling / Supply Chain  
Management

**WG 2**

Market  
development /  
Investments

**WG 3**

Sectoral demand  
(vertical market  
applications)

**WG 4**

Support SME,  
East EU, Regions  
...

**WG 5**

Education, training,  
awareness,  
exercises

**WG 6**

SRIA  
Technical areas  
Products  
Services areas

SME solutions /  
services providers;  
local / regional SME  
clusters and  
associations  
Startups, Incubators  
/ Accelerators

**Others  
(financing  
bodies,  
insurance,  
etc.)**

Large companies  
Solutions /  
Services Providers;  
National or  
European  
Organisation /  
Associations

Regional / Local  
administrations  
(with economic  
interests); Regional  
/ Local Clusters of  
Solution / Services  
providers or users

Public or  
private users  
/ operators:  
large  
companies  
and SMEs

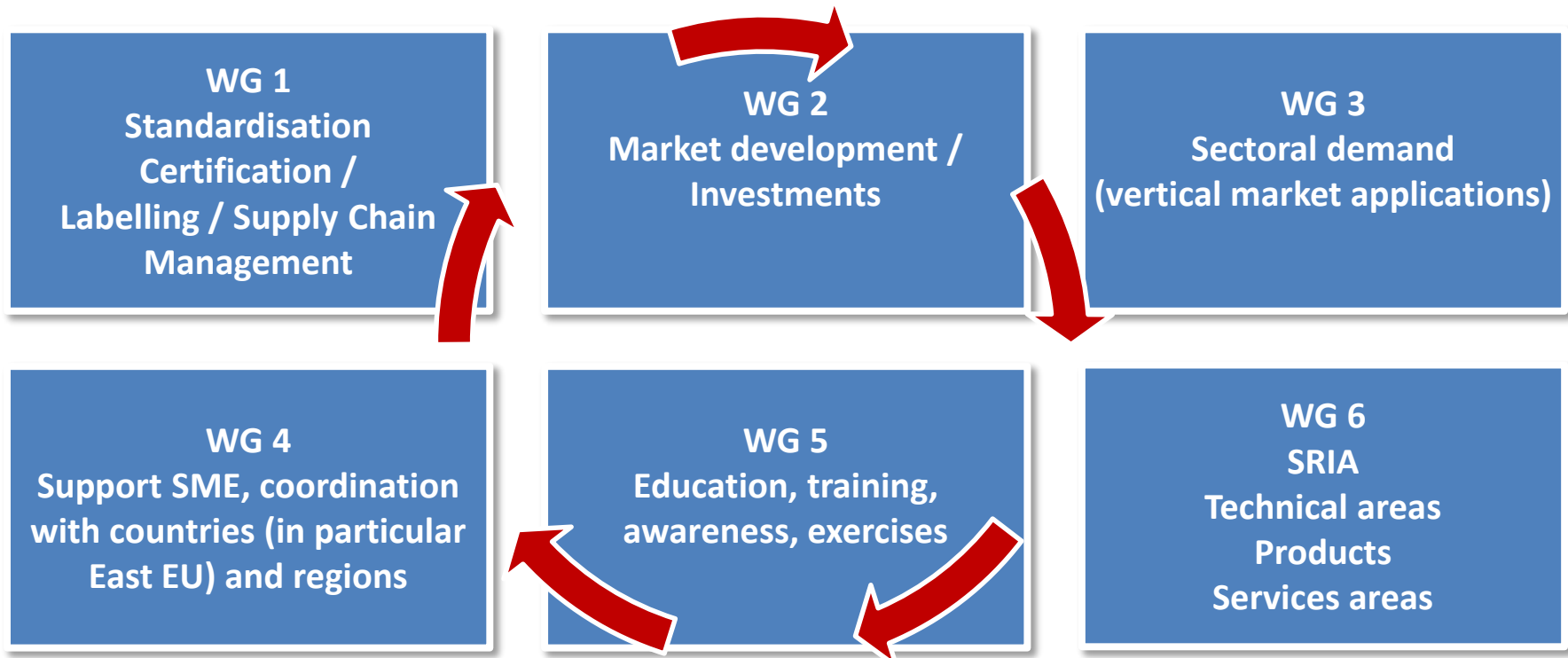
**NATIONAL PUBLIC  
AUTHORITY  
REPRESENTATIVES  
COMMITTEE:  
R&I Group  
Policy Group**

Research  
Centers (large  
and medium /  
small),  
Academies /  
Universities and  
their  
Associations

ECSCO  
General Assembly



# WORKING GROUPS & TASK FORCES



# The Status / Activities of ECSO



- Organisation up and running in record time
- WG1 (standards, certification) and WG6 (SRIA) started;
- WG3 (verticals) and WG4 (SMEs) will start in October;
- WG2 (Market investments) and WG5 (education, training, awareness) will start in November
- Activity has started at much higher speed than usual in Brussels: beginning of October first draft of WP 2018-2020 priorities and Certification Roadmap; finalised paper by early December.
- Interesting activities expected in 2017 (ECSO launch event + High Level Roundtable with EU and National public Administrations and CEOs in January / February; main event in Tallinn under EE Presidency of the EU, ...).

## **More information in the ECSO WEBSITE**

**[www.ecs-org.eu](http://www.ecs-org.eu)**

**Become member of a unique pan-European cyber security organisation and give your direct contribution to the PPP!**

How? You can find in the website:

- Industry Proposal
- SRIA
- ECSO Statutes
- cPPP contract
- ECSO Membership Application Form

More info at: [www.ecs-org.eu](http://www.ecs-org.eu)

## CONTACT US



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