



INSTITUTO NACIONAL DE CIBERSEGURIDAD

National past and future on R&I and the cybersecurity market



NCC-ES

SPAIN CYBERSECURITY
COORDINATION CENTRE



INSTITUTO NACIONAL DE
CIBERSEGURIDAD



SPAIN

Land of **cybersecurity**



GOBIERNO
DE ESPAÑA

VICEPRESIDENCIA
PRIMERA DEL GOBIERNO
MINISTERIO
DE ASUNTOS ECONÓMICOS
Y TRANSFORMACIÓN DIGITAL

SECRETARÍA DE ESTADO
DE DIGITALIZACIÓN E
INTELIGENCIA ARTIFICIAL



TU AYUDA EN
CIBERSEGURIDAD
incibe_

SPAIN: STATE OF THE CYBERSECURITY INDUSTRY

Land of Cybersecurity



1st country in the EU with **58 CSIRTs**



2nd European Union country
4th in the world in **Cybersecurity maturity**



20+ years maturity of the Spanish cybersecurity ecosystem



Cybersecurity Industry

-  **1,900 M euros**
-  **14%+ of growth** expected in 2022
-  **Public-private partnership cooperation**
-  **1,800 security companies and services.**
-  **85% of companies offer cybersecurity services**
-  **150,000 security workers**

Research ecosystem

-  **RENIC** (National Network of Excellence for Research in Cybersecurity):
 - 45** cybersecurity research teams in Spain
 - 452** researchers
 - 10** technology centers
 - 28** universities
 - 7** research centers
-  **RNLI** (National Network of Industrial Cyber Laboratories)
 - 25** laboratories

Talent in cybersecurity

-  **121** regulated training programs in cybersecurity:
 - 84** Master's degree programs
 - 3** university specializations
 - 4** bachelor's degrees
 - 30** Professional Training specializations
-  **168 centers** offering training in cybersecurity

National Cybersecurity Plan (2022)


€+ €1 billion
+ 150 actions over the **next 3 years:**

-  **Platform for the exchange of information**, in real time, between public and private institutions.
-  **Cybersecurity infrastructures** in the autonomous communities and cities and local entities.
-  **Integrated** system of cybersecurity **indicators.**
-  **Cybersecurity Operations Centre** for the General State Administration and its Public Institutions.
-  Promote **cybersecurity in SMEs, micro-SMEs** and the **self-employed.**
-  Promote a **culture of cybersecurity**

OUR GOAL IS SUPPORTING DIGITAL TRANSFORMATION

SPANISH NATIONAL STRATEGIC SECURITY FRAMEWORK



SPANISH DIGITAL TRANSFORMATION FRAMEWORK



INCIBE STRATEGIC PLAN



NEXT GENERATION EU



Strengthening cybercapacitybuilding in citizens, SME's and freelancers.



Boosting the business ecosystem in the Cybersecurity sector.



Promoting Spain as an international cybersecurity node.

BOOSTING CYBERSECURITY

Strengthening
Cybersecurity
Culture

Supporting the Cybersecurity Industry



Aimed at enhancing
cybersecurity
capacities of
**enterprises and
citizens**



**Entrepreneurship
program**



Aimed at boosting
**R&D in
cybersecurity**



This program offers
training and fosters
talent and
cybersecurity skills



**Strategic Initiative: Public Procurement of Innovation (PPI)*

- **Increase Cybersecurity R&D&i leadership and positioning at EU and international level.**
- **Reinforce the scientific and technological excellence to transfer innovative solutions to the market.**
- **Push the scientific Innovation, the technological development and the transfer to the industry.**
- **Identify, attract, generate and retain the research talent in cybersecurity at national level.**
- **Empower the cooperation with initiatives that will allow to explore the capacities of the Research ecosystem.**



**National Cybersecurity
Network of Excellence**

RENIC: MEMBERS



[Vicomtech](#)

Vicomtech, miembro de la Red Vasca de Ciencia, Tecnología e Innovación



[UOC](#)

Universitat Oberta de Catalunya



[Universitat Politècnica de València](#)

Universitat Politècnica de València



[Universidad Rey Juan Carlos](#)

Universidad Rey Juan Carlos



[Universidad de Castilla-La Mancha](#)

Universidad de Castilla-La Mancha



[Universidad de Cantabria](#)

Universidad de Cantabria



[Universidad Carlos III de Madrid](#)

Universidad Carlos III de Madrid



[Tecnalia](#)

Fundación Tecnalia Research & Innovation, miembro de la Red Vasca de Ciencia, Tecnología e Innovación



[Universidad Politécnica de Madrid](#)

Universidad Politécnica de Madrid



[Universidad de Zaragoza](#)

Universidad de Zaragoza



[Universidad de Sevilla](#)

Universidad de Sevilla



[Universidad de Murcia](#)

Universidad de Murcia



[Mondragon Unibertsitatea](#)

Mondragon Goi Eskola Politeknikoak S.Coop.



[IMDEA Software](#)

Fundación IMDEA Software



[IMDEA Networks](#)

Fundación IMDEA Networks



[IKERLAN](#)

IKERLAN, miembro de la Red Vasca de Ciencia, Tecnología e Innovación



[Universidad de Málaga](#)

Universidad de Málaga



[Universidad de León](#)

Universidad de León



[Universidad de La Laguna](#)

Universidad de La Laguna



[Universidad de Granada](#)

Universidad de Granada



[i2CAT](#)

Fundació i2CAT_Centro de Investigación de Internet



[Gradiant](#)

Fundación Centro Tecnológico de Telecomunicaciones de Galicia



[FIDESOL](#)

Fundación I+D del Software Libre



[CSIC](#)

Consejo Superior de Investigaciones Científicas

Universida de Vigo

[Universidad de Vigo](#)

Universidad de Vigo



[INCIBE](#)

Instituto Nacional de Ciberseguridad



[CDTI](#)

Centro para el Desarrollo Tecnológico Industrial

R&D&I CATALOGUE IN CYBERSECURITY

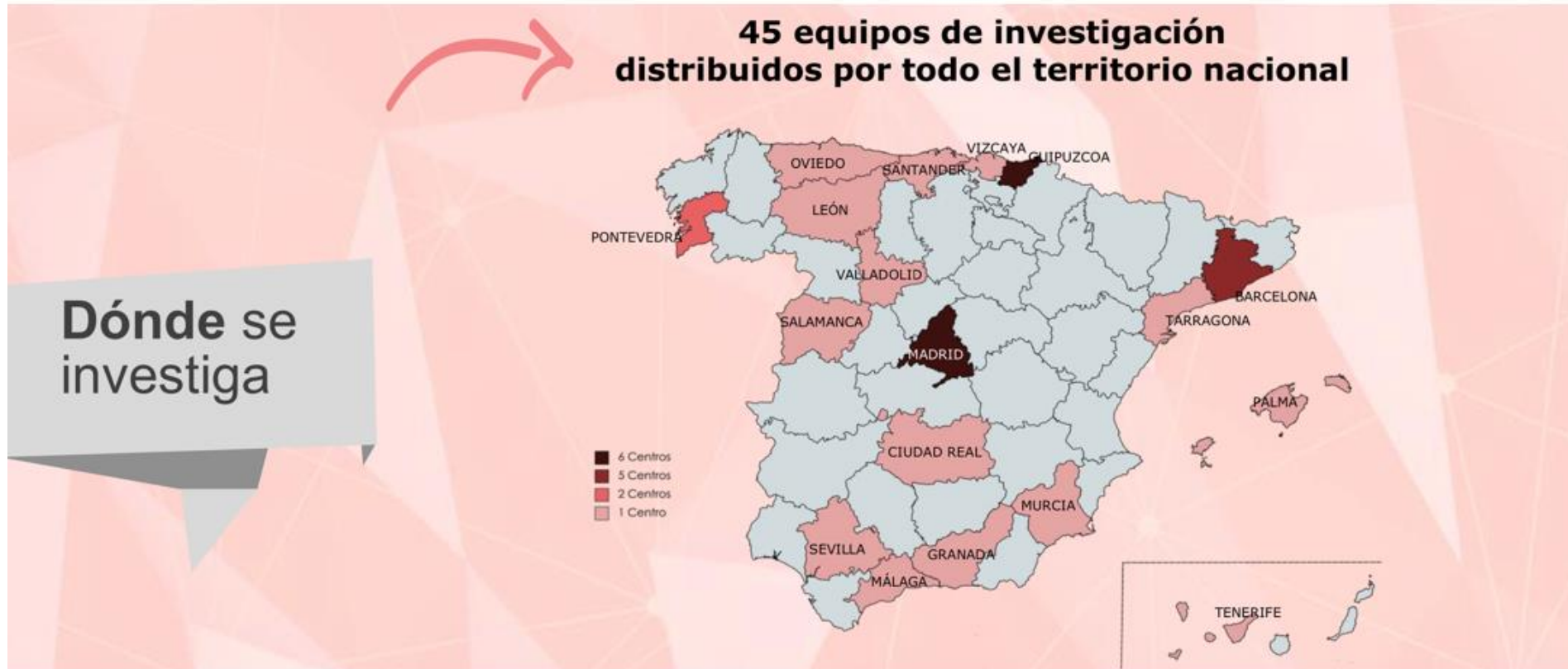


January 2017



April 2021

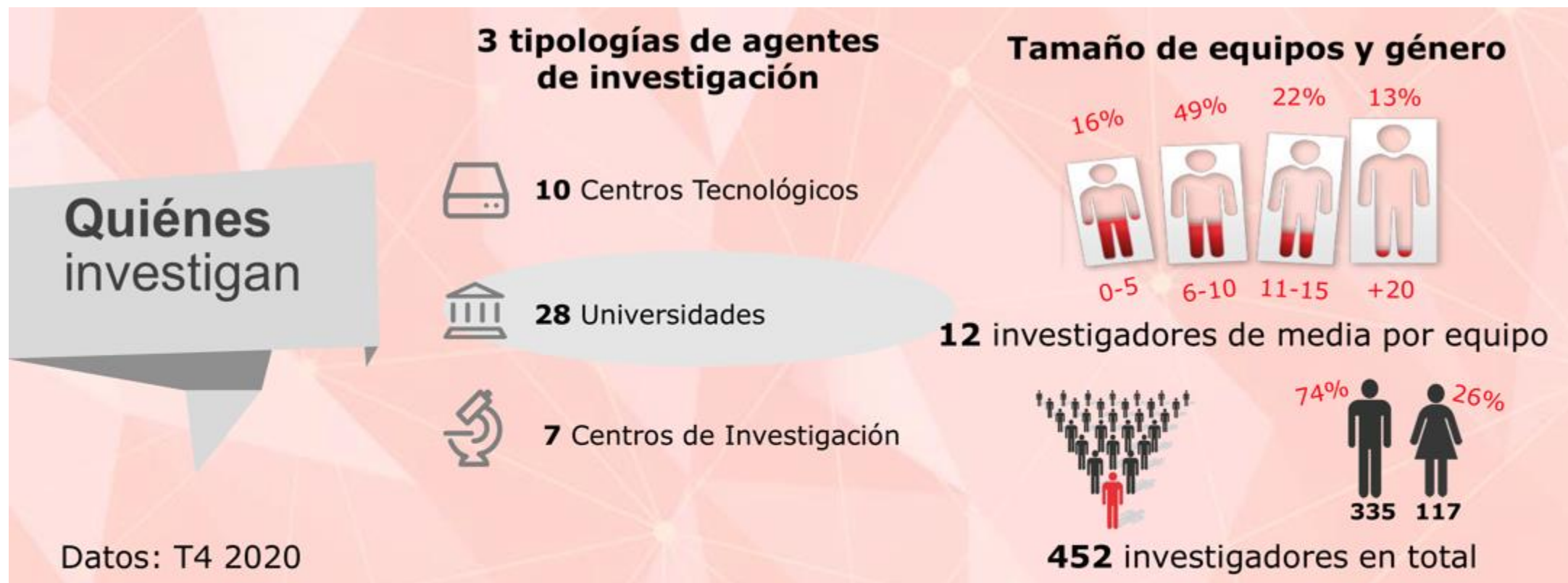
RENIC: WHERE RESEARCH IS CONDUCTED?



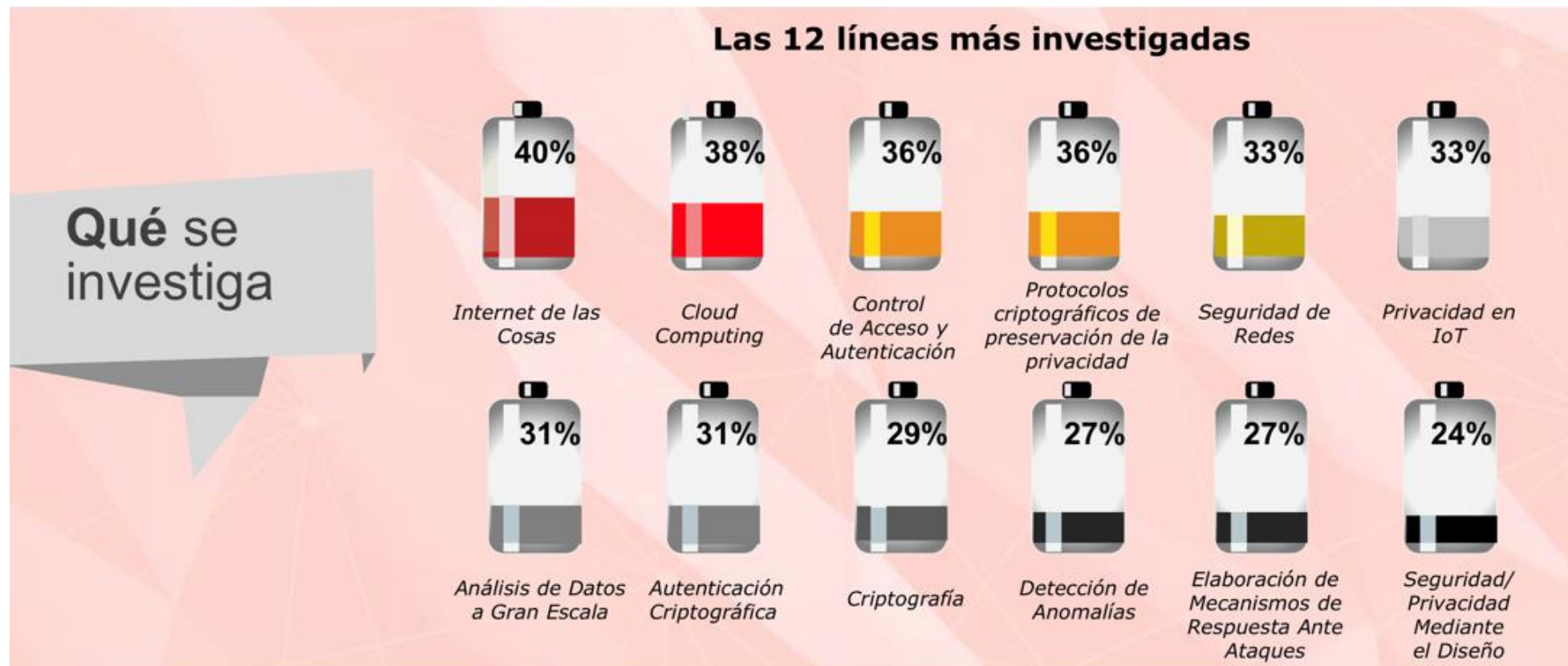
RENIC
Red de Excelencia Nacional de Investigación en Ciberseguridad

Resultados del Catálogo y Mapa de Conocimiento de la I+D+i en Ciberseguridad en España

RENIC: WHO IS RESEARCHING?



RENIC: RESEARCH TOPICS



- ❖ JNIC is a scientific conference that promotes contact, exchange and discussion of ideas, knowledge and experiences between the academic and research network on the one hand, and professionals and companies on the other. The conference will focus on three areas: Research, Transfer and Training in Cybersecurity.
- ❖ Since its foundation in 2015, INCIBE has collaborated in the organisation of the conference every year.



JNIC
Jornadas Nacionales
de Investigación en
Ciberseguridad

JNIC2021

- **Organizer (Remote):** Univ. Castilla-La Mancha
- **Participation**
 - Universities (26)
 - Companies (6)
 - Other institutions (11)
- **Assistants (550)**
- **Presented papers (86)**
 - 67 Accepted
 - 19 Rejected

JNIC2022

- **Organizer:** TECNALIA
- **Participation**
 - Universities (30)
 - Companies (12)
 - Other institutions (16)
- **Assistants (157)**
- **Presented papers (93)**
 - 77 Accepted
 - 16 Rejected

JNIC2023

- **Organizers:** AtlanTTic | Universidade de Vigo y Gradient
- **Participation**
 - Universities (30)
 - Companies (9)
 - Other institutions (7)
- **Assistants (204)**
- **Presented papers (108)**
 - 90 Accepted
 - 18 Rejected

PUBLIC PROCUREMENT OF INNOVATION (CPI): ROADMAP

2020

Validation

- ❖ Benchmark.
- ❖ Initial work to define the strategy.
- ❖ Validation with the FNCS.



2021

Design and CPM

- ❖ Definition of the Strategy.
- ❖ Allocation of PRTR funds.
- ❖ Recruitment of Technical Office.
- ❖ IECPI announcement at MWC 2021.
- ❖ Launch of the Preliminary Market Consultation (CPM).

2022

Procurement

- ❖ Presentation of the TDM.
- ❖ Conclusions of the CPM.
- ❖ Publication of the regulatory document for A1 - CPP1.
- ❖ Publication of the regulatory document for A2,3,4,5 and 7 - CPP2.
- ❖ Governance Model.



2023

Procurement

- ❖ Publication of the regulatory document CPP3.

Implementation

- ❖ Formalisation of contracts.
- ❖ Start of R&D projects.

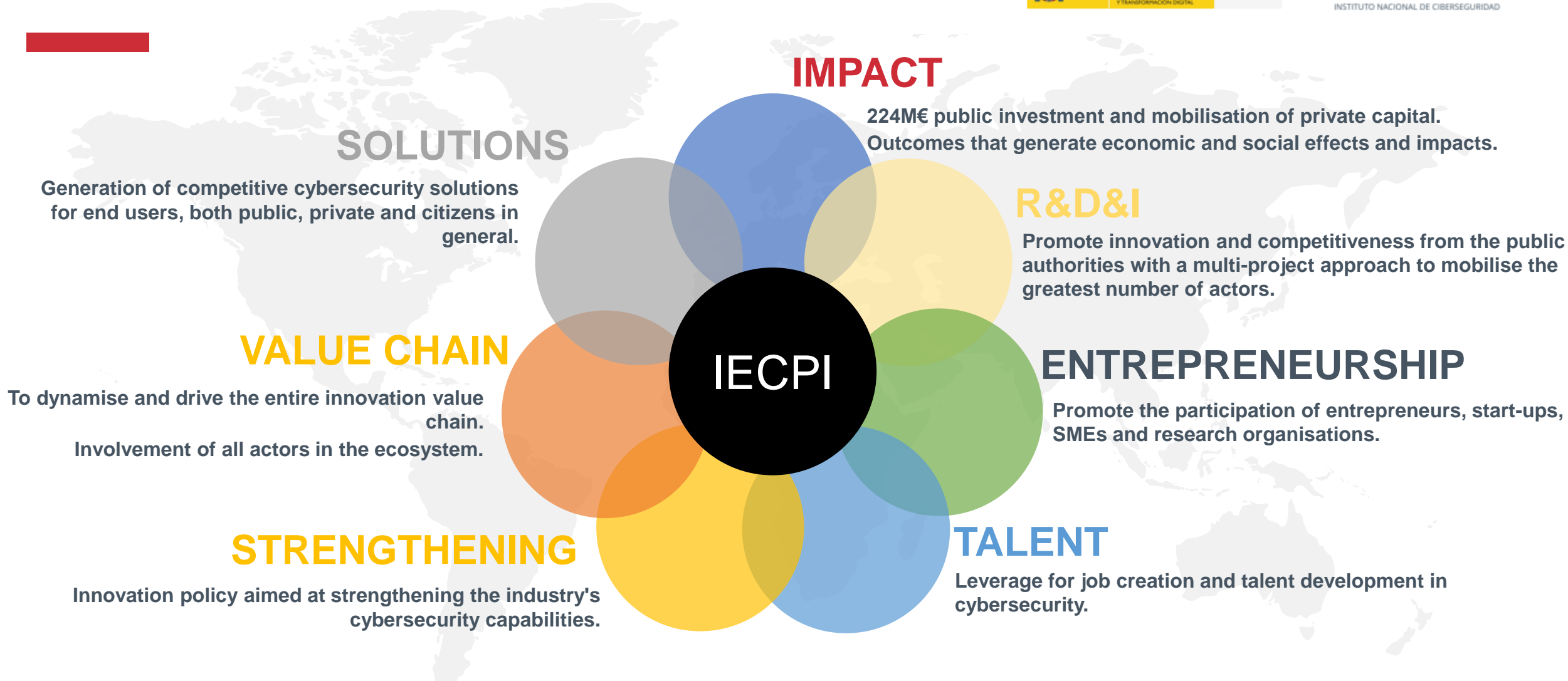
2026

End

- ❖ Project closure.
- ❖ Administrative closure.
- ❖ PRTR justification.
- ❖ Completion of IECPI.



CPI: INITIATIVE



INCIBE's IECPI is the largest Public Procurement of Innovation initiative in cybersecurity with a public investment of €224 million.

CPI: CALLS

❖ INCIBE's IECPI is broken down into 3 calls:

❑ [CPP001/22](#). 8 contracted programmes

❑ Total committed : 26.451.789,36€

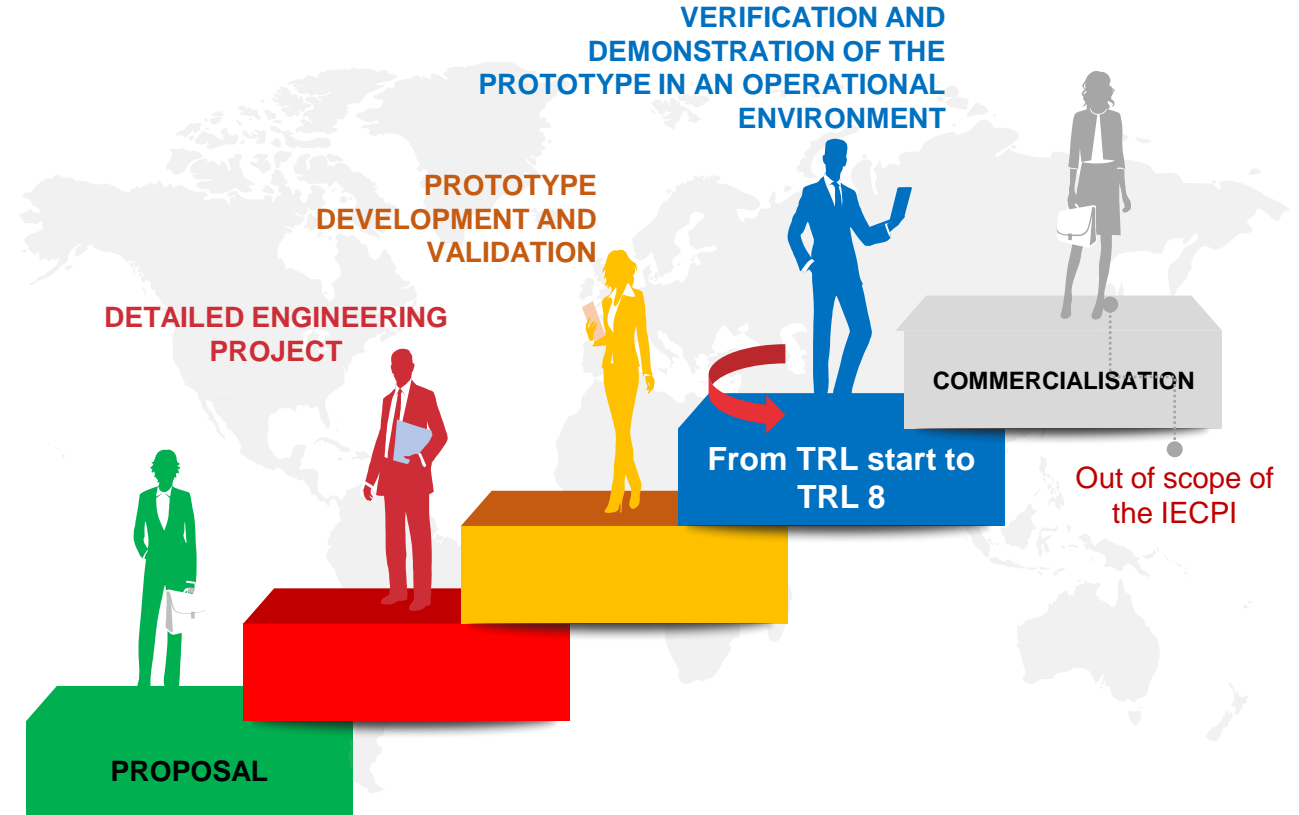
❑ [CPP002/22](#). 83 contracted projects

❑ Total committed : 89.354.625,56€

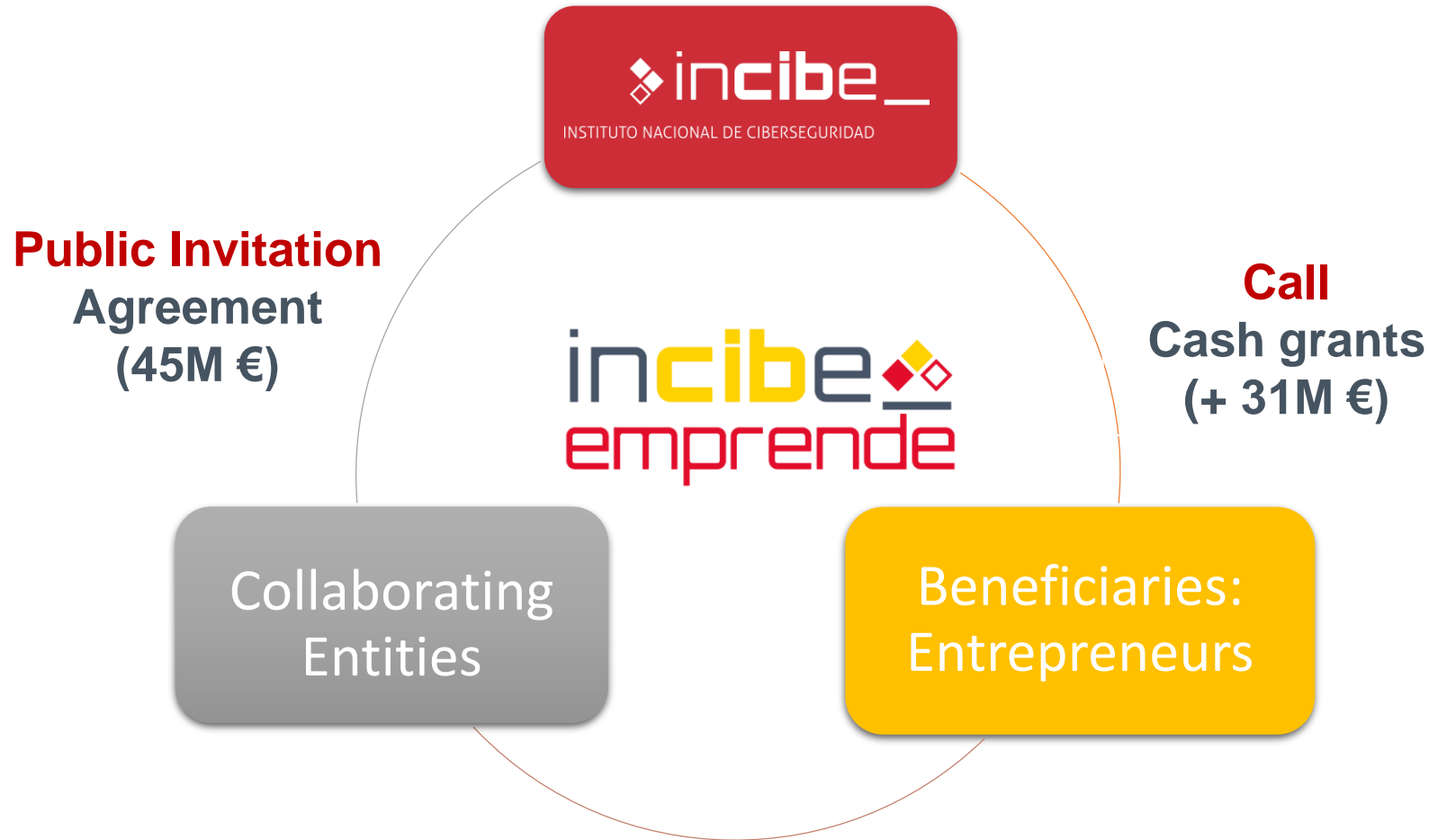
❑ [CPP001/23](#). 46 contracted projects

❑ Total committed: 59.531.704,23€

Once contracted, the life cycle of the projects will be as follows :



INCIBE EMPRENDE



INCIBE EMPRENDE: ACTIONS 2023-2026

Overall minimum annual targets



250 talks per year *

75 Workshops in the regions*

75 Annual events *



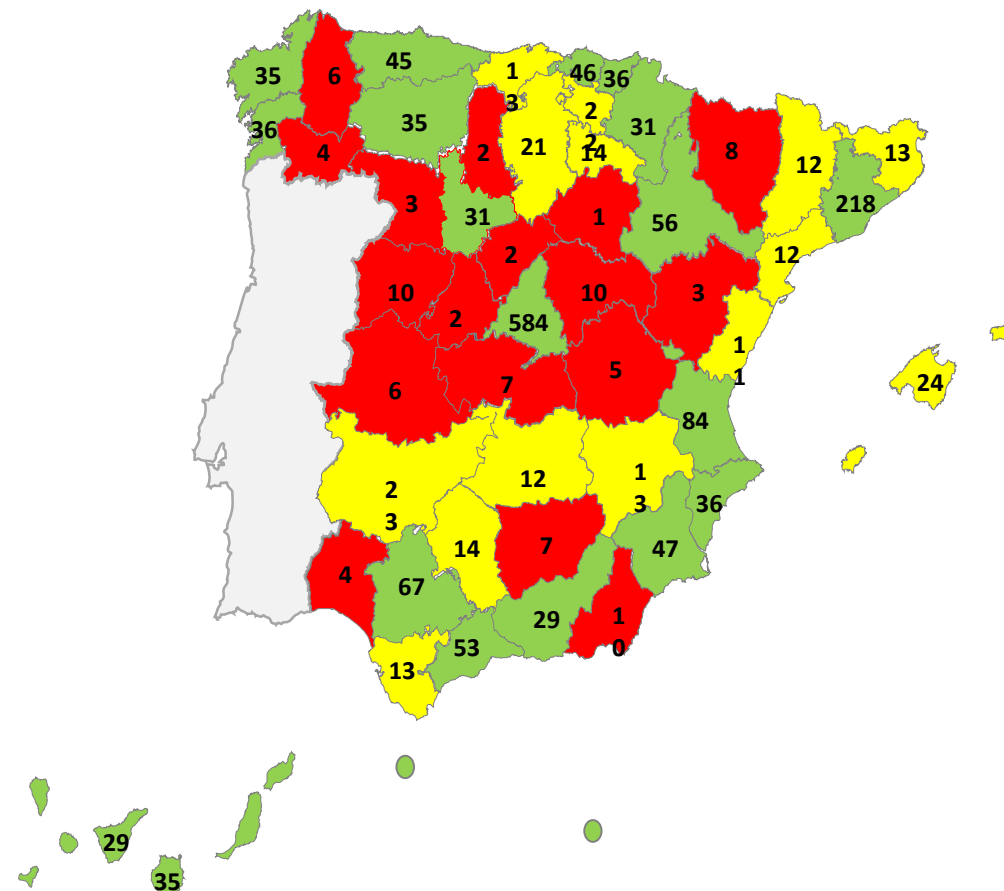
8 editions of the incubator



6 editions of the accelerator

90 Express accelerations

Regional distribution of companies registered in INCIBE that offer cybersecurity services and solutions in Spain.



* 50% of the actions will be carried out in provinces with less than 10 companies linked to the cybersecurity industry, 30% of the actions in provinces with between 11 and 25 companies and 20% of the recruitment actions will be carried out in provinces with more than 25 companies.

* 2 in each of the provinces with less than 17 cybersecurity companies and 1 in the rest.

CÁTEDRAS (CYBERSECURITY CHAIRS)

Public Invitation for collaboration in the promotion of Cybersecurity Chairs in Spain



Objective: support the organization of events, the development of academic programs and capacity building in cybersecurity by public universities or consortia led by a public university.



Publication date: December 1, 2022.

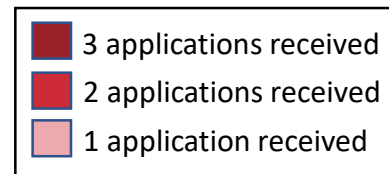
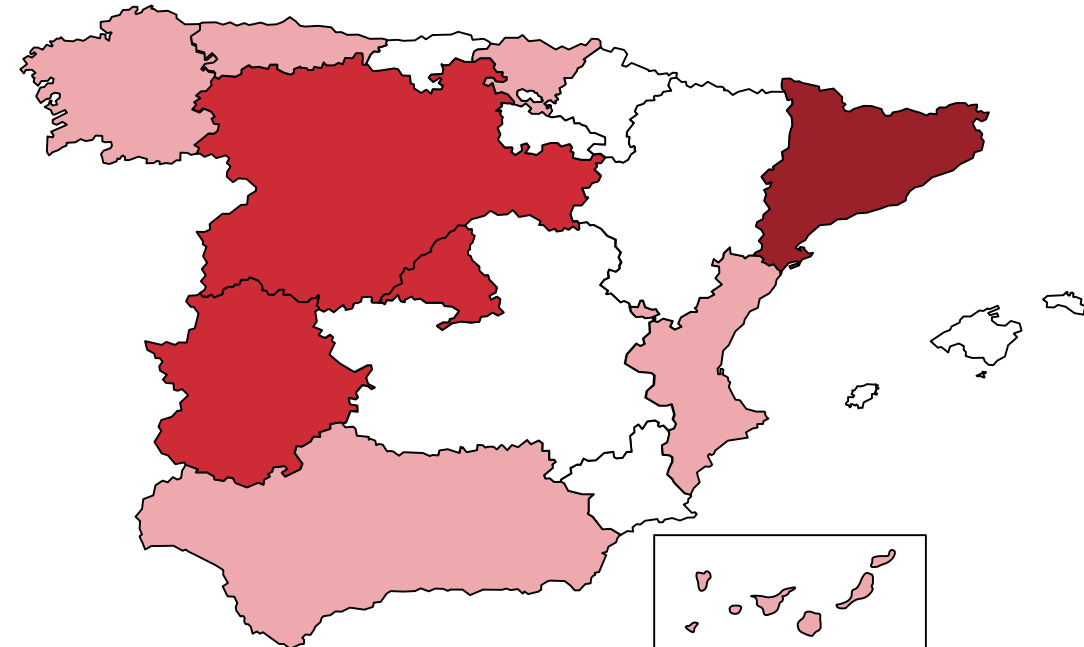
Deadline for submission: December 31, 2023 at 23:59 pm



Budget: 16,8 M€ (Max: €900,000 for national Chairs and €1.2 M for international Chairs)



16 applications received



ECCC: AN OPPORTUNITY FOR R&D&I IN CYBERSECURITY



Financial Boost

Direct mechanisms and cascade funding



Real Decreto 204/2023, de 28 de marzo, por el que se modifica el Real Decreto 403/2020, de 25 de febrero, por el que se desarrolla la estructura orgánica básica del Ministerio de Asuntos Económicos y Transformación Digital.



1.650 M€

(Cybersecurity funding 2021-2027)



1.600 M€

(Cluster III – includes cybersecurity – 2021-2027)



8.000 M€*

(2021-2027)

*Potential synergies

Support and Dynamization

- ◆ R&D+i emerging technologies
- ◆ SMEs and Cyber Industry
- ◆ Multisectoral impact (energy, health, telco, manufacturing, public, financial, space...)
- ◆ Solutions for civil and military use
- ◆ Employment Promotion and Talent Development
- ◆ Synergies with Community and European bodies

NATIONAL COORDINATION CENTRE (NCC-ES)

INCIBE designated as **National Coordination Centre (NCC-ES)** by the National Cybersecurity Council (Consejo de Nacional de Ciberseguridad)

Functions (art. 7)

- ◆ Act as a **point of contact and coordination** at the national level to support the Competence Center in its mission and objectives, cooperate with other relevant stakeholders, industry, the public sector, the academic and research community and the public, taking into account the challenges in cybersecurity
- ◆ **Implementation of cross-border projects** and joint actions financed through the EU
- ◆ Provide **specialized knowledge** taking into account the specific challenges in cybersecurity, at the national and regional level
- ◆ **Establish synergies** with relevant activities at the national, regional and local levels, in particular the policies set forth in national cybersecurity strategies
- ◆ Provide **technical assistance** for projects managed by the ECCC in relation to its mission and objectives
- ◆ Promote cybersecurity **education programs**
- ◆ **Evaluate National applications** to form part of the Community
- ◆ Create a public-private **Community of Competence** at national level



NATIONAL CYBERSECURITY COMPETENCE COMMUNITY

The Community will involve a broad, interdisciplinary, open and diverse group of European stakeholders in the field of cybersecurity technology, including in particular **research entities, supply and demand side industry, including SMEs, and the public sector.**

It will involve the participation of **National Coordination Centres, European Digital Innovation Hubs**, where appropriate, as well as **institutions, bodies and agencies with Union expertise**, such as ENISA.

Functions of the members of the Community

- **Support the Competence Centre** in fulfilling its mission and achieving its objectives.
- They will **work in close collaboration** with the Competence Centre and the National Coordination Centres.
- **Participate, when appropriate, in working groups** to carry out specific activities foreseen in the annual work program.
- They will support the Competence Centre and the NCCs in the **promotion of specific projects.**



SMEs WORKSHOP

On the occasion of the Spanish Presidency of the Council of the European Union, a workshop was held with the participation of the National Coordination Centres (NCCs) of the European Centre of Competence in Cybersecurity (ECCC), and representatives of the parties involved in the European innovation ecosystem.

- The workshop is aligned with the objective of increasing the **participation of SMEs in European R&D&I** actions in the field of cybersecurity through ECCC funding opportunities.
- The workshop brought together representatives of the NCCs, and European representatives of SMEs, research, economic development organisations and associations, among others, who were able to share lines of work for an increased SME presence in European cybersecurity R&D&I.
- This workshop, under the Spanish presidency of the EU, is the starting point for the development of actions to **boost the weight of SMEs in the European innovation ecosystem**.



SMEs play a critical role in the European economy, representing more **than 99% of all enterprises and contributing more than half of European GDP**. As the backbone of the European economy, they employ around 100 million people, serving not only as enablers of the digital transformation, but also as a central element of the EU's social fabric. Their importance is amplified by their dynamic and flexible nature, which allows them to adapt quickly to technological changes and market trends.

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