



# Regional Approach to Build Cybersecurity Capacity



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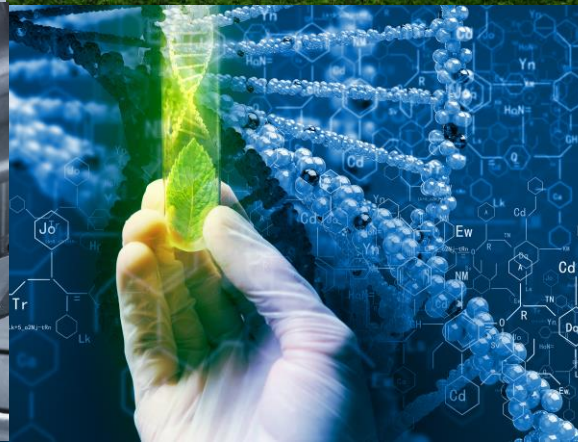
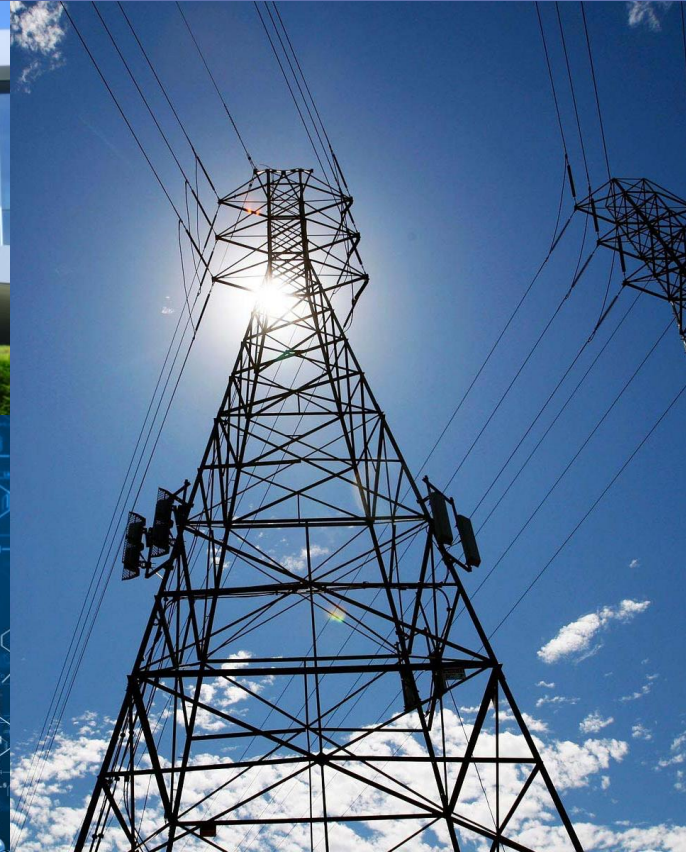
# Scope: Functions

- Development
- Education
- Security / Police
- eGovernment
- Investment
- Research network
- Entrepreneurship



The Basque Cybersecurity Centre was created in October 2017 within the Basque Agency for Business Development (SPRI)

# Scope: Major Concerns



RIS3 - Our number one priority is the Basque Industry.

## Economic Development

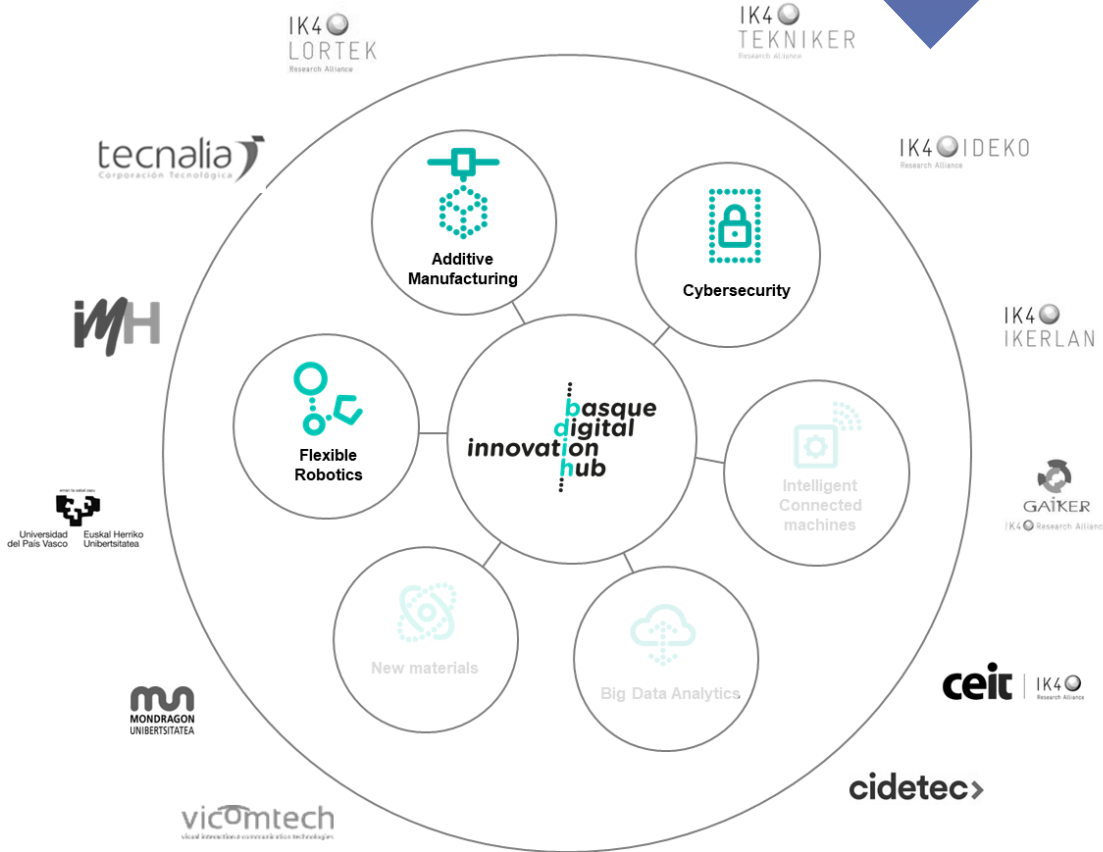


## CSIRT



Willing to cooperate and share.

# Economic Development – Digital Innovation



## Basque Digital Innovation Hub

<http://www.spri.eus/es/basque-industry/basque-digital-innovation-hub/>

Part of the Digital Innovation Hubs Catalog created by the European Commission

<http://s3platform.jrc.ec.europa.eu/digital-innovation-hubs-catalogue>

An opportunity to foster interregional collaborative projects and to create an European network of DIHs.

# Economic Development – Cyber Range



Education, Awareness and Training for Professionals

# Economic Development – Education

Dual vocational training programmes adapted to the specificities of the local industry.

Post-degree Cybersecurity Programme.

Recycling and reorienting

Awareness raising in the usage of digital devices.

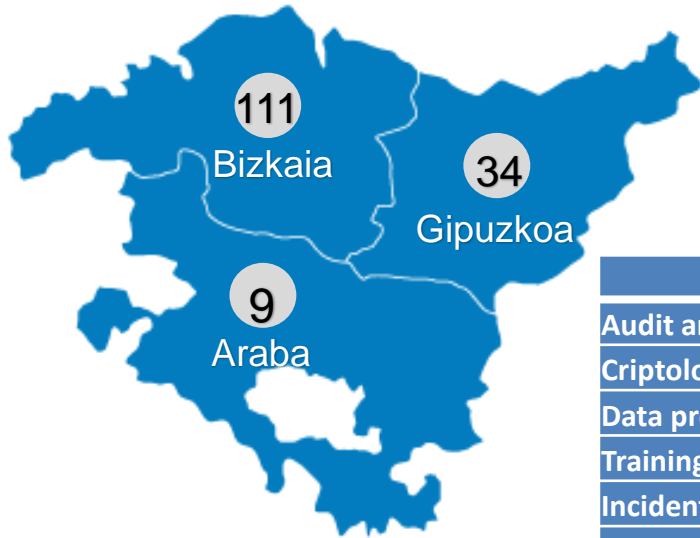
Talent search and attraction.



Professionals of today and citizens of the future.



# Economic Development – R&D&I



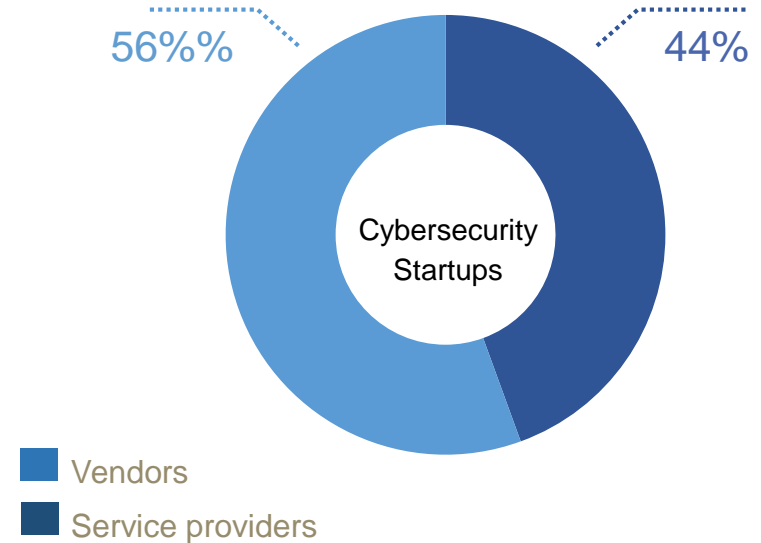
More than 150 researchers working in 125 R&D&I projects in Cybersecurity coordinated by the Basque Cybersecurity Centre.

More than 200 publications in the last 5 years.

Areas of expertise	Publications
Audit and certification	13
Criptology	11
Data protection and privacy	28
Training and education	5
Incident management and digital forensics	5
Security governance and management	11
Distributed networks and systems	89
Software and hardware security engineering	40
Security measures	2
Technology and legal aspects	2
Security analysis and design theoretical foundations	3

Technological transference is the real challenge.

# Economic Development – Entrepreneurs profile



Entrepreneurship is a key innovation driver.

The Basque Country has been recognized – among 171 Agencies worldwide – in the **Strategy Awards 2018 by the Financial Times** (also attached “fDi Strategy Awards 2018”) in different categories:

- First-Prize winner in “Aftercare” category. This category is about the relationship of the Government with companies (foreign capital) established in the Region.
- First-Prize winner in “Start-ups and SME support” category. Because of the Acceleration Program **Bind 4.0**
- Second-prize Winner in “Incentives” category. Incentives to Research, Development and Innovation have been the most remarkable.
- Second-prize Winner in “Project of major interest by an Agency of Investment Attraction”. **VIRALGEN project.**

- Collaborating with local agents to identify their real Internet perimeter and adjusting reputational rating with vendors.
- We have deployed basic infrastructure (MISP and MINEMELD) to share information and we expect to be ready to make the most of it by the end of 2019.
- Our focus is to work together with ISPs present locally to sensor and analyze sectoral threats to our core industry (advanced manufacturing, energy and biosciences), regional government and critical infrastructures.
- Local:
  - ❑ Connected to the MISP of CSIRT.ES.
  - ❑ Collaboration Agreement with PuntuEUS Foundation.
- International:
  - ❑ Connected to the MISP of FIRST.
  - ❑ Possibility of accessing to different Working Groups in FIRST and EUROPOL.
  - ❑ Sharing information with ShadowServer regarding the IP Space of the Basque Country.

We have just begun, progressing at a rapid pace.

- Working with ShadowServer to join SISSDEN Project, a honeypot network, and to gain access to datasets that could be useful for our research community.
- In contact with some international CSIRTs to explore specific cooperation activities:
  - Team Cymru
  - CERT-EE
  - CIR-CL
  - CERT-IL
- Local collaboration agreements with INCIBE, AVPD and VOST are in progress.
- Developing a Project with local Cybersecurity service providers to begin monitorizing information leaks related to the compromise of regional government's credentials.

We have just begun, progressing at a rapid pace.

- In Spain, the competency to deal with critical infrastructures protection as well as internal incidents regarding public institutions has been assigned to National CSIRTs.
- Some amendments have been proposed to the transposition of the NIS Directive, that does not attribute any role to the regions, in order to highlight the advantages of having presence in the last-mile:
  - ❑ Proximity.
  - ❑ Knowledge.
  - ❑ Trust.
- Working with National CSIRTs (CCN-CERT and INCIBE) to identify the role of regional CSIRTs.
- In the meantime:
  - ❑ Constructing strong relationships with local organizations.
  - ❑ Enabling locally established critical operators to elevate their level of protection.

# Future



BASQUE  
CYBERSECURITY  
CENTRE

Technological dependency reduction, local capacities development, inter-regional cooperation.

# THANK YOU



[www.basquecybersecurity.eu](http://www.basquecybersecurity.eu)

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