

Cybersecurity Industry Development

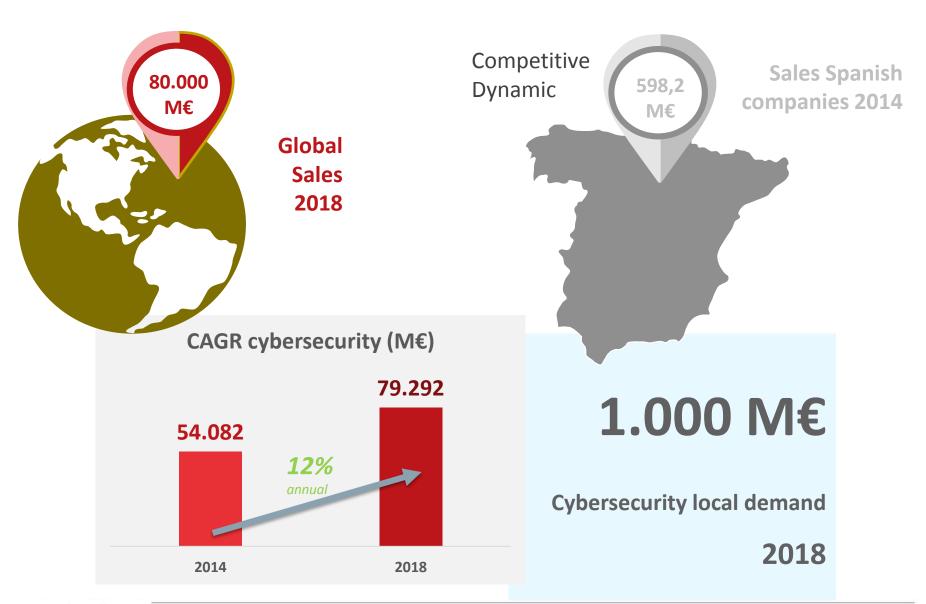
Ignacio Caño Luna INCIBE Operations







Cybersecurity market situation

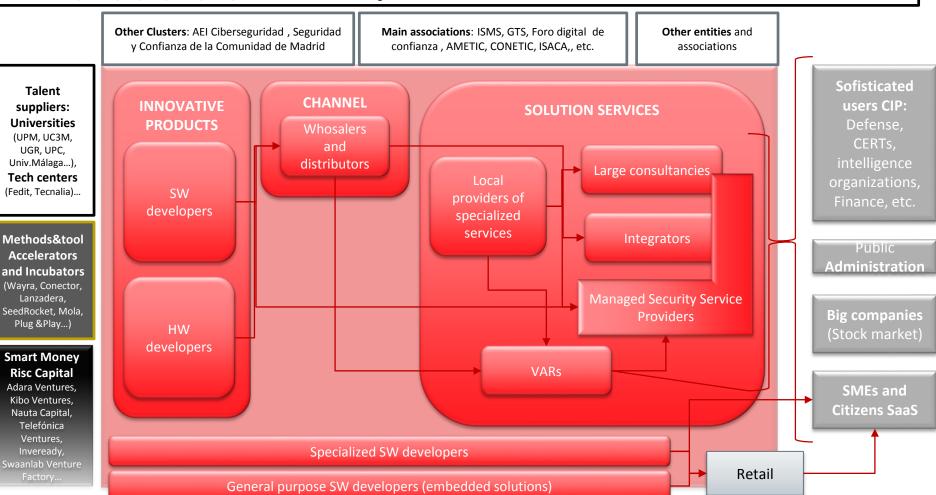




Complex Value Chain: creation & delivery

Public Administration

Ministry of Industry, Energy and Tourism, Ministry of Telecommunications and Information Society, Ministry of Economy and Competitiveness, Ministry of Finance and Public Administration, INCIBE, CNI, CCN, CNPIC, AEPD, Other CERT's national and regional





Where to put the effort? Common issues for industry growth

INDUSTRY ASSOCIATIONS

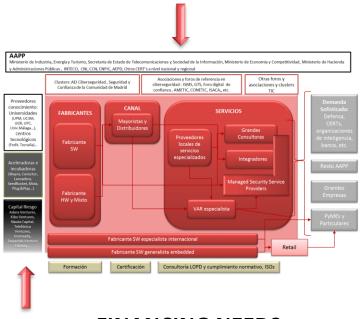
INNOVATION

 Broad range of research and technological groups but no leadership



- Limited offer of specialized training
- Limited collaboration
 University-Industry

• Variety of innitiatives on **regulatory**, **standards** and awareness aspects.



FINANCING NEEDS

Lack of financing and capital risk

LOCAL DEMAND

- Key role of the Public Administration to develop start ups and innovation ecosystem
- Product certification criteria
 - Sustainability of solutions recurring sales
 Public Demand: Defense, Home Affairs, CERTs, CIPs Authorities, etc

How to develop DIH?

How we do it? Funnel model

INPUT

A combination of ideas, technologies, shared experiences and entrepreneurs from companies, Universities and R&D centers

TALENT START-UPS COMPANIES:
DEVELOPERS AND
INTEGRATORS

Market driven approach

OUTPUT

- COMPETITIVENES
- JOB CREATION
- INTERNATIONAL scale-up

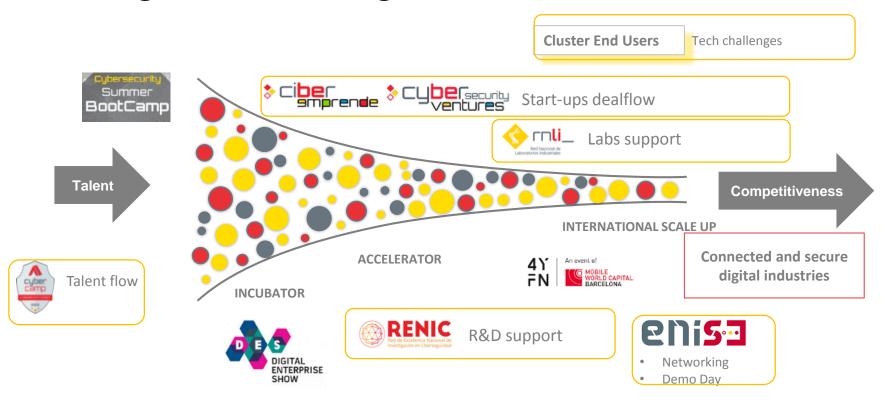


TECH TRANSFER ACCELERATOR TO INDUSTRY CLUSTER NEW PRODUCTS AND INNOVATION TRAINING AND BUSINESS MODELING CUSTOMERS AND SCALABILITY INTERNATIONAL OPPORTUNITIES. PRIZE AWARDS AND OPPORTUNITIES INVESTORS - DEMO DAY COLABORATION AND NETWORKING



Support from INCIBE

Integrated wide Program





How INCIBE helps the Cybersecurity Industry?

INCIBE implements a complete programe including activities to increase local demand, new tech suppliers, and stronger international positioning.

3 strategic actions:

1: Cluster Development - existing companies

Supporting market development, higher visibility abroad, trade fairs, comercial missions, latest trends and opportunities,

2: R&D transfer to solve industry challenges

Better alignment and communication between academia and industry

3: New start-ups and entrepreneurship

Incubation and accelearation programs



1. Cluster Development (National)

Tackle challenges & break barriers

Fragmented Cybersecurity Industry
Few innovative projects
Low international presence
Lack of specialized talent
Limited market intelligence
Infrequent collaborative working

PROJECT PLAN AND WORKING GROUPS

- 1) Networking and awareness events
- 2) New International Cybersecurity exhibition
- 3) Trade missions and fairs abroad
- 4) Observatory and trends studies
- 5) Countries Market Research studies and guides
- 6) Technology challenges and transfer to industry
- 7) Investment and financial solutions for cybersecurity start-ups in each stage.
- 8) Entrepreneurship and incubation programs
- 9) International Cybersecurity Accelerator
- 10) Stakeholders management and communications

Roadmap

Create new talent opportunities

Develop a community of experts

Reinforce with new entrants (start-ups)

Access to international markets

Cybersec demand from main players and end users

Technology transfer from R&D to monetize viable business projects



1. Cluster Development (European)

Cybersecurity Innovation HUB Improving competitiveness in an EU DSM



- Demand: Increase visibility about end users challenges for innovative cyber solutions
- Supply: Specialized competence center and facilities to provide talent and technology
- MS collaborative approach: create EU Leaders with competitive advantages
- Group cooperation to share and address common strategic challenges
- Fostering collaboration between public-private players
- Break physical MS and environmental barriers
- Address long-term cluster sustainability



1. Cluster Development

12th Edition Cybersecurity event



Spain: **bridge**

Between Latin-America and EU.

Sector focus: attraction of end users from key sectors (energy, finance and public sector)

Innovation: Gathering of the entrepreneurship ecosystem

Seeking a **market oriented** business environment for cybersecurity solutions

- Participation of public policy-makers, high level conferences and panels
- Start-ups and Entrepreneurship track
- Trade show and Expo to facilitate networking and business deals of Spanish cybersecurity companies
- Central role to showcase product innovation



1. Cluster Development

Networking and international visibility: 4YFN, DES, InfoSecurity, RSA, CyberTech...









2. R&D transfer to solve industry challenges

Practical approach: **Piloting projects** to solve end users' challenges and create future market leaders

1. Dynamize demand of cybersecurity solutions

- Public instruments to encourage participation, such as pre-commercial public procurement to adopt innovation.
- Focus around main challenges and specific use cases to develop the supply of innovation capabilities and environment for experimentation and testing

2. Facilitate supply capabilities

- Competence centers and training
- Facilities for experimentation and rapid prototyping.

3. Reduce market transfer gap

- PoCs into MVP that solve client needs
- IPR protection
- Talent and tech skills into SMEs and start-ups



2. R&D transfer to solve industry challenges

Orchestrate a R&D Network

RENIC: National R&D Excellence Network in Cybersecurity..."

TO AVOID FRAGMENTATION AND REACH CRITICAL MASS

- +100 Research teams
- Infrastructure

COORDINATION & PRIORIZATION

- National Cybersecurity Research Agenda
- European Commission NIS- Strategic Research & Innovation Agenda (SRA)

OBJECTIVES

- Knowledge transfer to Industry
- Spin-offs / Start-ups
- Attract Seed Capital / Venture Capital (VC).





2. R&D transfer to solve industry challenges

Talent development

"... INCIBE is a Center of Excellence that drives highly qualified professionals"

e2e Talent lifecycle management

- DETECTION (Cybersecurity EVENTS CyberCamp, Contests, simulations, CTFs, Wargames, MOOCs, etc.)
- ATRACTION (incentives, awards, advanced training, coaching, mentoring etc.)
- AWARENESS (practical training for several itineraries, youngest, families, entrepreneurs, spaces)
- JOB CREATION (Talent Forum, employment programs, knowledge transfer, PhD contracts, etc.)







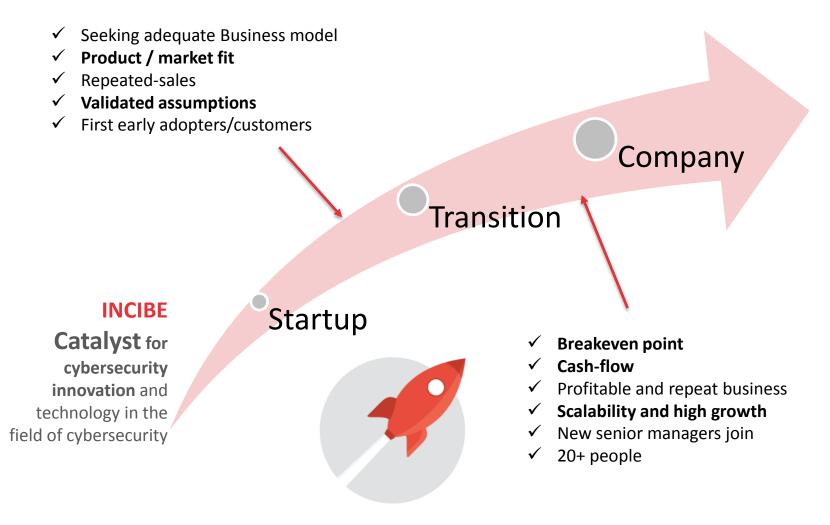








3. New start-ups and entrepreneurship





Gracias por su atención





